

## Some taxonomical notes on Cantharidae (Coleoptera)

Fabrizio FANTI

Via del Tamburino 69, I-53040 Piazze (SI), Italy  
e-mail: fantifab@alice.it

**Cantharidae, nomenclatural acts, new synonymy, nomina dubia, nomen oblitum, nomen protectum, type species, lectotype, paralectotype**

**Abstract.** In the present article, I discuss the precedence of the name *Cephalomalthinus* Pic, 1921 over *Fissocantharis* Pic, 1921 and propose several taxonomical acts: *Fissocantharis* Pic, 1921 = *Cephalomalthinus* Pic, 1921 syn. nov.; *Cantharis* Linnaeus, 1758 = *Malacopteryx* Forster, 1770 syn. nov. and the type species of *Malacopteryx* Forster, 1770 is designated here to be *Cantharis fusca* Linnaeus, 1758 ("*Malacopteryx Fuscus*"); *Cantharis americana* Forster, 1771 = *Chauliognathus pensylvanicus* De Geer, 1774 syn. rest. and its lectotype and paralectotype are designated; *Cantharis berberidis* Schrank, 1781 nomen dubium; *Cantharis haemagaster* Schrank, 1785 nomen dubium; *Cantharis nigra* (De Geer, 1774) = *Cantharis haemorrhœa* Schrank, 1785 syn. nov.; *Cantharis livida* Linnaeus, 1758 = *Cantharis immaculatus* Pontopiddan, 1763 syn. nov.; *Cantharis rufa* Linnaeus, 1758 = *Cantharis littoralis* Strøm, 1768 syn. nov.; *Telephorus ustulatus* Bach, 1851 nomen oblitum and *Ancistronycha erichsonii* (Bach, 1852) nomen protectum; *Malthinus frontalis* (Marsham, 1802) = *Malthinus tenellus* Bach, 1852 syn. nov. Finally, I quote *Rhagonycha lutea* a. *verticalis* W. Kolbe, 1919 that has been almost completely forgotten but it is infrasubspecific and thus not available, and I specify the synonymy *Rhagonycha tristis* (Dejean, 1836) nomen nudum = *Rhagonycha fuscitibia* Rey, 1891. I also provide forgotten (or almost forgotten) species as *nomina nuda*, but which in the future could be available names with the discovery of old and rare articles with the descriptions: *Cantharis atricollis* Weigel, 1805 nomen nudum, *Cantharis praeusta* Weigel, 1805 nomen nudum, *Cantharis rutilata* Weigel, 1805 nomen nudum, *Cantharis pallidipennis* Dejean, 1821 nomen nudum, *Telephorus palliatus* De Cristofori & Jan, 1832 nomen nudum, *Telephorus cincticollis* Schmidt, 1840 nomen nudum, *Telephorus maculicollis* Schmidt, 1840 nomen nudum, *Telephorus montanus* Schmidt, 1840 nomen nudum, *Malthinus geniculatus* Schmidt, 1840 nomen nudum, *Malthinus teres* Siebold, 1847 nomen nudum, *Cantharis figurata* v. *infuscata* (J. Sahlberg) Grill, 1896 and J. R. Sahlberg, 1900 *nominata nuda*, and *Malthodes amaurus* Andrei & Petrescu, 2009 nomen nudum.

## INTRODUCTION

The purpose of the present work is to study the existing literature on various species of soldier beetles (Cantharidae) of various authors, almost forgotten by the catalogues (Hicker 1925, Delkeskamp 1939, 1977, Kazantsev & Brancucci 2007, Kazantsev 2012) and from world literature. Tracing the types (which unfortunately have often been lost), establishing their current status, proposing new nomenclatural acts and thus bringing these species to the attention of the scholars of this family and the scientific community. I refer above all to species of Europe but also to the genus (*Cephalomalthinus* Pic, 1921 - *Fissocantharis* Pic, 1921) of the Palaearctic-Oriental region and a very well-known and common species (*Cantharis americana* Forster, 1771 - *Chauliognathus pensylvanicus* De Geer, 1774) of North America, for whose priority of the name, should intervene the International Commission on Zoological Nomenclature (ICZN).

## MATERIALS AND METHODS

I managed to trace only the types of *Cantharis americana* Forster, 1771, preserved at the Linnean Society of London, while holotypes of the other authors have been lost. For each genus or species listed here, where applicable, I report: 1) genus or species name including author(s) and year; 2) original combination with the page(s) number of the description (in brackets the eventual page number of the reprint), the current status (or act), type species, the synonymization, and the type locality in its original scripts; 3) subsequent citations (in square brackets when the authors is not indicated in the original work but is known by subsequent articles), again with page number and sometimes with interesting information; 4) eventual incorrect spelling; 5) comments, note and information on the nomenclatural acts proposed.

## RESULTS

### *Fissocantharis* Pic, 1921

*Fissocantharis* Pic, 1921b: 27 = *Cephalomalthinus* Pic, 1921a: 5 **syn. nov.**

**Comments and note.** Maurice Pic in 1921 described two genera: *Cephalomalthinus* with the species *C. oocularis* of Asia Minor, and *Fissocantharis* with the species *F. impressicornis* of Borneo and *F. opaca* of Sumatra (Pic 1921a, 1921b). But while *Cephalomalthinus* Pic, has remained over the years a monotypic genus, the genus *Fissocantharis* Pic, have been added several species, so that currently is one of the genera with more species from Asia (Delkeskamp 1939, 1977). These two genera are in a close relationship with other genera described later (*Fissopodabrus* Pic, 1927, *Kandyosilis* Pic, 1929, *Stenopodabrus* Nakane, 1992) and with *Micropodabrus* which was described by Pic himself a year earlier (Pic 1920). Wittmer (1997) separates *Micropodabrus* and proposes *Mimopodabrus* for species presenting the aedeagus with laterophysis, but as demonstrated by Yang et al. (2009) also the type species of *Micropodabrus* has the same type of aedeagus with laterophysis. These authors (Yang et al. 2009) therefore propose the synonymy between these two genera, and moreover they restore the state of *Cephalomalthinus* and *Fissocantharis* which, on the other hand, do not present aedeagical laterophysis. Unfortunately, Yang et al. (2009), however, propose as a valid genus *Fissocantharis* in place of *Cephalomalthinus*, because according to them the date of publication of *Cephalomalthinus* remained uncertain, but in reality in both works and for both genera, the date is unequivocally present. The article in which *Cephalomalthinus* appears shows the date “28 avril 1921”, and that of the genus *Fissocantharis* shows the date “12 may 1921”, therefore *Cephalomalthinus* has without any doubt precedence.

### *Malacopteryx* Forster, 1770

*Cantharis* Linnaeus, 1758 = *Malacopteryx* Forster, 1770 **syn. nov.** Type species *Cantharis fusca* Linnaeus, 1758 (as “*Malacopteryx Fuscus*”), by subsequent designation, here.  
Forster 1771a: 26 (reprint of 1787: 155; reprint of 1882: 26), Sherborn 1902: 1138 and below the relative species, Nomenclator Zoologicus [as *nomen nudum*], AnimalBase 2005-2018 [as *nomen nudum*].

**Comments and note.** Forster (1770) mentions under *Malacoptyryx* 13 species of which two also with associate the author (Berkenhout), therefore the name is undoubtedly available (ICZN 1999: Art. 12.2.5.) and cannot be considered *nomen nudum* as in Nomenclator Zoologicus (Neave 1939-40: vol. 3 page 31, Edwards & Hopwood 1966: vol. 6 page 158 and 325) and AnimalBase (2005-2018). Moreover, even the other species listed, although not having the author, which can be considered implicit (and clearly Linnaeus) are easily identifiable and well known and moreover the whole work is based on the species described by Linnaeus himself. Of the 13 species included, we find: four *Cantharis*, a *Rhagonycha*, a *Malthinus*, a *Malthodes*, three representatives of the family Melyridae and a species of the family Lymexylidae, species that were once all included in the genus *Cantharis* Linnaeus, 1758. Forster evidently names the new genus *Malacoptyryx* to avoid the confusion between *Cantharis* and *Meloe* of Linnaeus (Forster 1770: 6 under *Cantharis*) which then lasted almost for a further century. Since Forster already clearly indicates the belonging of *Malacoptyryx* to *Cantharis* Linnaeus, 1758 and given that the first species indicated (though “without author”) under *Malacoptyryx* is the well-known *Cantharis fusca* Linnaeus, 1758, for the principle of position precedence (ICZN 1999: Recommendation 69A.10., see also Recommendation 69A.7. [Forster marks the most abundant species with the letter d]), is here designated as a type species and since *Cantharis fusca* is also the type species of the genus *Cantharis* Linnaeus, the two genera *Malacoptyryx* and *Cantharis* are objective synonyms (ICZN, 1999: Art. 67.11., see also: Art. 61.3.3. and Art. 69.2.). Agree to Sherborn (1902) and AnimalBase (2005-2018), *Malacoptyryx testaceus* Forster, 1770 and *Malacoptyryx caeruleus* Forster, 1770 are *nomina nuda* (Forster 1770: 7), because they are associated with an unpublished manuscript of Berkenhout even if they are likely to refer to *Rhagonycha testacea* (Linnaeus, 1758) and to the Coleoptera Oedemeridae *Ischnomera caerulea* (Linnaeus, 1758).

### ***Cantharis americana* Forster, 1771**

*Cantharis americana* Forster, 1771b: 50 (7) = *Chauliognathus pensylvanicus* De Geer, 1774 **syn. rest.** Locus typicus: “Americae Septentrionalis Noveboracensi”.

Forster 1771a: 26 (reprint of 1787: 155; reprint of 1882: 26) as “*Malacoptyryx Americanus*” n.n., LeConte 1851: 338, Sherborn 1902: 42 [as “*Malacoptyryx americanus* Forster, 1771 n.n.”], Delkeskamp 1939: 303, 1977: 434, AnimalBase 2005-2018.

[I indicate here, only the articles inherent in my writing. A good list is present in Delkeskamp 1939, 1977].

**Comments and note.** Species described as *Cantharis* by Johann Reinhold Forster (Dirschau (now Tczew), Poland, 22 October 1729 - Halle an der Saale, 9 December 1798) but correctly identified as *Chauliognathus* by later authors. Some Forster types, including *Cantharis americana*, as we are informed by Day & Fitton (1977), are still preserved in the Linnaean collection to The Linnean Society of London. The study of the types therefore allows to confirm the synonymization, as already proposed by LeConte (1851)\*, of the species *C. americana* with *Chauliognathus pensylvanicus* and not with *Chauliognathus marginatus* as in Delkeskamp (1977: Miskimen letter). The name *Cantharis americana* clearly and without any doubt has precedence over *Chauliognathus pensylvanicus*, for which the Commission

should rule (see also Delkeskamp 1977). Still seeing the almost certain presence of the syntypes (Day & Fitton 1977: 33), the designation of the lectotype is still useful and necessary for a better future intervention by the Commission. To the Linnean Society are preserved two specimens (which are to be considered syntypes) collected by Forster himself: LINN 6865 and LINN 6866. The first (LINN 6865) appears better preserved even if half of the right elytron is missing (and almost all the right antenna), and has also a label “*Cantharis americana* - N.S.” (N.S. = new species), is here therefore considered lectotype, and LINN 6866 that has not label data is considered as paralectotype (ICZN 1999 Art. 73.2. and Art. 74.).

\*In reality already Schönherr (1808: 68) synonymized *C. americana* Forster and *Telephorus pensylvanicus* De Geer with *Cantharis bimaculata* Fabricius, 1781 and before that also Illiger (1802: 379) *C. americana* Forster with *C. bimaculata*.

### *Cantharis berberidis* Schrank, 1781

*Cantharis Berberidis* Schrank, 1781: 181-182 **nomen dubium**. Locus typicus: “Austriæ” from the title. Villers 1789: 301-302, Sherborn 1902: 111, 1090 (index), AnimalBase 2005-2018.

**Comments and note.** Schrank gives for this species a good description but unfortunately does not compare it with any other species already known. The small size would suggest a representative of the subfamily Malthininae Kiesenwetter, 1852, but no species has the color related to the description that Schrank provides for *C. berberidis*. Therefore, the species is considered here a nomen dubium and it is also very probable that it is not even a Cantharidae species. Villers (1789) takes up a part of the description given by Schrank adding that it is found in Europe, but unfortunately also of his collection we do not know its fate (Bousquet 2016).

### *Cantharis haemagaster* Schrank, 1785

*Cantharis haemagaster* Schrank, 1785: 321 **nomen dubium**. Locus typicus: “Fürstenthume Berchtesgaden” [= principality of Berchtesgaden, Bavaria, Germany]. Sherborn 1902: 444, 1090 (index), AnimalBase 2005-2018.

**Comments and note.** Schrank says it is similar to *Cantharis rufa* Linnaeus, 1758 but narrower. Unfortunately the concise description of the color (all black, red belly) and without dimensions does not allow to formulate any hypothesis, and therefore the name is considered here a nomen dubium.

### *Cantharis haemorrhœa* Schrank, 1785

*Cantharis nigra* (De Geer, 1774) = *Cantharis haemorrhœa* Schrank, 1785: 321 **syn. nov.** Locus typicus: “Fürstenthume Berchtesgaden” [= principality of Berchtesgaden, Bavaria, Germany]. Sherborn 1902: 445, 1090 (index), AnimalBase 2005-2018.

**Comments and note.** Franz von Paula Schrank (Varnbach near Schärding, Austria, 21 August 1747 - Munich, 22 or 23 December 1835) gives a very brief description: black, red shield, yellow feet, but in the following lines he associates it with *Cantharis niger* Goeze and De Geer. This similarity proposed by the Schrank himself and the corresponding description suggests that the synonymy between *Cantharis haemorrhoa* Schrank, 1785 and *Cantharis nigra* (De Geer, 1774) is almost certain. The Schrank's collection probably is lost.

### *Cantharis immaculatus* Pontopiddan, 1763

*Cantharis livida* Linnaeus, 1758 = *Cantharis immaculatus* (Brünnich) Pontopiddan, 1763: 675; reprint of 1765: 207; reprint of 1766: 439 **syn. nov.** Locus typicus: "Dannemark" [= Denmark] from the title; "Siællandicæ" [= Zealand] from the title of Brünnich.

Brünnich 1761: 28, AnimalBase 2005-2018.

**Comments and note.** Species remained unknown until today and named and very briefly described by Erik Ludvigsen Pontopiddan (Århus, 24 August 1698 - København [= Copenhagen], 20 December 1764) on the basis of the description, but without specific name, already made by Morten Thrane Brünnich (Copenhagen, 30 September 1737 - Copenhagen, 19 September 1827) in 1761 on specimen(s) of the Zealand Island in Denmark. The Brünnich's collection is considered to be preserved at the Zoological Museum of Copenhagen (Groll 2017) where in reality are present very few species, while the Pontopiddan's collection is completely lost (T. Pape and T. Schiøtte personal communications). Given that in the original description, and even more extensively and clearly in Brünnich's description, *C. immaculatus* is compared to *C. fusca*, from which it differs for the head testaceous with black spot and immaculate pronotum, the species is clearly to be referred to *C. livida*. *Cantharis* is feminine and the correct declination is *immaculata*.

### *Cantharis littoralis* Strøm, 1768

*Cantharis rufa* Linnaeus, 1758 = *Cantharis (Litteralis)* Strøm, 1768: 324-325 and Tab. XVI Fig. 9; reprint of 1770: 274 and Tab. XVI Fig. 9. **syn. nov.** Locus typicus: "Norske" [= Norway] from the title.

Sherborn 1902: 544, 1090 (index), AnimalBase 2005-2018.

= *Cantharis Littoralis* (Strøm) Hammer, 1775: 104 (incorrect spelling)

**Comments and note.** Hans Strøm (Borgund [= Ålesund], 25 January 1726 - Hokksund, 1 February 1797) described *Cantharis littoralis*, saying it was similar to *Cantharis livida* Linnaeus, 1758 but with a black M-shaped line on the pronotum (Strøm 1768). This character, combined with the good dimensions, the shape of the pronotum and the coloring with the head black V-shaped behind the eyes, and the front legs with black femurs, make it clearly and without doubt to be considered a synonym of *Cantharis rufa* Linnaeus, 1758. The species was then forgotten by subsequent authors, and the Strøm's collection has been lost over the years ([https://no.wikipedia.org/wiki/Hans\\_Strøm](https://no.wikipedia.org/wiki/Hans_Strøm)) and it is not present in Copenhagen (T. Pape and T. Schiøtte personal communications).

## *Telephorus ustulatus* Bach, 1851

*Telephorus ustulatus* Bach, 1851: 50 (49 *nomen nudum*) **nomen oblitum**. Locus typicus: “Rheinprovinz, Boppard”.  
*Ancistronycha erichsonii* (Bach, 1852) **nomen protectum**.  
Bach 1852: 68 [see synonymy under *T. Erichsonii* Grimmer in litt.], Zebe 1852: 459.

**Comments and note.** Bach (1851) says that *T. ustulatus* is related to *Ragonycha* sic! *melanura* (= *Ragonycha fulva* Scopoli) but is a *Telephorus*. The following year Bach (1852) synonymized it with the description of *Telephorus Erichsonii* sic! (= *Ancistronycha erichsonii* Bach). Since we find a similarity and a clear difference, and no other species can be confused (in the type locality only *Ragonycha fulva* and *Ancistronycha erichsonii* have that coloration), the taxon according to the Code is to be considered available, even if the intentions of the author was to describe it later. Since, to my better knowledge, the conditions foreseen by the Code (ICZN 1999 Art. 23.9., 23.9.1., 23.9.1.1. and 23.9.1.2.) that is, the name is no longer used as valid after 1899 and the junior synonym (*Ancistronycha erichsonii*) is presumed valid in at least 25 works, published by at least 10 authors in the immediately preceding 50 years and encompassing a span of not less than 10 years, *Ancistronycha erichsonii* Bach, 1852, in accordance to the ICZN (Art 23.9.1. and 23.9.2.), is an available name (*nomen protectum*) and *Telephorus ustulatus* Bach, 1851 is a *nomen oblitum* (ICZN 1999 Art. 23.9.2.). Below, there is a partial list of authors and works that consider *A. erichsonii* Bach, 1852 a valid species and that completely satisfy the Art. 23.9.1.2. (Delkeskamp 1977, Peez & Kahlen 1977, Allenspach & Wittmer 1979, Freude et al. 1979, Burakowski et al. 1985, Kazantsev 1989, 2004, 2005, 2010, 2011, 2012, Švihla 1993, Kuška 1995, Liberti 1995, Köhler & Klausnitzer 1998, Drovenik 2001, Diéguez Fernández 2004, 2011, Diéguez Fernández et al. 2006, 2009, Kazantsev & Brancucci 2007, Dvořák 2012, Macovei 2012, Constantin 2014a, 2014b, Fanti 2014). Curiously, the fact that in the same period Kiesenwetter (1852) describes his *Telephorus ustulatus* (= *Cantharis pallida* Goeze) which evidently, given the difference in color between *Cantharis pallida* and *Ancistronycha erichsonii* (which has the color of *Rh. fulva*), is not the same species of *Telephorus ustulatus* Bach, 1851. Furthermore, De Cristofori & Jan (1832) quote a *Telephorus ustulatus* of Meg. (= Megerle).

## *Malthinus tenellus* Bach, 1852

*Malthinus frontalis* (Marsham, 1802) = *Malthinus tenellus* (Illiger) Bach, 1852: 74 **syn. nov.** Locus typicus: “Harz”. [Schmidt] [1839]: 21, 1844: 25, Gaubil 1849: 116 [from Austria], [Kiesenwetter & Schaum] 1849: 44, Motschulsky 1853: 13.

**Comments and note.** Species attributed by all authors to Illiger, whose description is, however unknown. Bach (1852) even attributes it to Illiger but describes it formally (act remained unknown), that belonging to the same species intended by Illiger remains uncertain. Given the type locality, size, rarity and coloring, I tentatively declare it a synonym of *Malthinus frontalis*. Motschulsky (1853) says he does not know it and cannot judge the analogy with *Hapaloderus pumilus* Motschulsky, 1853 (= *Malthodes tauricus* Pic, 1917), that I consider it unlikely given the geographical distance between the two species. The Bach collection is dispersed and no longer present at the University of Marburg.

## *Rhagonycha lutea a. verticalis* W. Kolbe, 1919

*Rhagonychus* [sic!] *lutea* nov. a. *verticalis* W. Kolbe, 1919: 33. Locus typicus: “Liegnitz: Berghäuser bei Dohnau (6/97)”.  
Burakowski et al. 1985: 300, Coleoptera Poloniae.

**Comments and note.** Aberration validly described, but according to the Code (ICZN 1999: Art. 45.5. and 45.6.) it must be considered infrasubspecific and not available. Aberration almost completely forgotten and not present in the catalogues (Hicker 1925, Delkeskamp 1939, 1977, Kazantsev & Brancucci 2007), with only two quotes I know, in an article and on a website.

## *Rhagonycha tristis* (Dejean, 1836)

*Cantharis Tristis* (Bonelli) Dejean, 1836: 120 nomen nudum = *Rhagonycha fuscitibia* Rey, 1891. Locus typicus: “Piedmont.”  
Gaueil 1849: 116, Gemminger & Harold 1869: 1664, Delkeskamp 1939: 124 [as *n.n.*], 1977: 180 [syn. of *R. improvisa* Dahlgren, as nomen nudum].

**Comments and note.** Synonymized with *Rh. femoralis* Brullé, 1832 already by Dejean (1836) and subsequently synonymous with *Rh. improvisa* Dahlgren, 1976 by Delkeskamp (1977). Given the type locality and the fact that the name now to be used for *Rh. improvisa* Dahlgren, 1976 it is *Rh. fuscitibia* Rey, 1891 (Kazantsev & Brancucci 2007), the synonymy is specified here: *Rh. tristis* = *Rh. fuscitibia* Rey, 1891.

## NOMINA NUDA

### *Cantharis atricollis* Weigel, 1805

*Cantharis atricollis* (Köhler) Weigel, 1805: 85 nomen nudum. Locus typicus “Schlesien”.  
Burakowski et al. 1985: 291 [nomen nudum], Coleoptera Poloniae [under subgenus *Metacantharis*, nomen nudum].

### *Cantharis praeusta* Weigel, 1805

*Cantharis praeusta* (Köhler) Weigel, 1805: 85 nomen nudum. Locus typicus “Schlesien”.  
Burakowski et al. 1985: 291 [nomen nudum], Coleoptera Poloniae [under subgenus *Metacantharis*, nomen nudum].

**Comments and note.** In the literature, there are various homonyms.

### *Cantharis rutilata* Weigel, 1805

*Cantharis rutilata* (Köhler) Weigel, 1805: 85 nomen nudum. Locus typicus “Schlesien”.  
Burakowski et al. 1985: 292 [nomen nudum], Coleoptera Poloniae [under subgenus *Metacantharis*, nomen nudum].

### *Cantharis pallidipennis* Dejean, 1821

*Cantharis Pallidipennis* Dejean, 1821: 37 (Locus typicus: “Styria”), 1833: 107 (Loc. typ.:

“Gal. merid.”), 1836: 120 (Loc. typ.: “Gallia merid.”) nomen nudum = *Rhagonycha nigripes* (W. Redtenbacher, 1842) [synonymized by Bach 1852: 71].

Sturm 1826: 109, 1843: 79, De Cristofori & Jan 1832: 23, [Schmidt] [1839]: 21, 1844: 25, Kiesenwetter & Märkel 1847: 81, Gaubil 1849: 116, Bach 1852: 71, Letzner 1871: 183, 1889: 269, Baudi 1872: 114, Bertolini 1872-78: 130, Sherborn 1922-32: 4697 [as nomen nudum], Burakowski et al. 1985: 302 [as nomen nudum].

#### ***Telephorus palliatus* De Cristofori & Jan, 1832**

*Telephorus palliatus* De Cristofori & Jan, 1832: 23 nomen nudum. Locus typicus “Germania”. [= Germany].

Sherborn 1922-32: 4694 [nomen nudum].

#### ***Telephorus cincticollis* Schmidt, 1840**

*Telephorus cincticollis* Schmidt, 1840: 31 nomen nudum. Locus typicus “böhmischer” [= Bohemian].

#### ***Telephorus maculicollis* Schmidt, 1840**

*Telephorus maculicollis* Schmidt, 1840: 31 nomen nudum. Locus typicus “böhmischer” [= Bohemian].

#### ***Telephorus montanus* Schmidt, 1840**

*Telephorus montanus* Schmidt, 1840: 31 nomen nudum. Locus typicus “böhmischer” [= Bohemian].

#### ***Malthinus geniculatus* Schmidt, 1840**

*Malthinus geniculatus* Schmidt, 1840: 31 nomen nudum. Locus typicus “böhmischer” [= Bohemian].

#### ***Malthinus teres* Siebold, 1847**

*Malthinus teres* (Knoch) Siebold, 1847: 356 nomen nudum = *Malthinus frontalis* (Marsham, 1802) [synonymized by Lentz 1861: 139]. Locus typicus: “Provinz Preussen - preussischen” [= Province of Prussia - Prussian] from the title.

Lentz 1856: 62 (reprint: 14), 1857: 101 (reissued: 172), 1861: 139, Burakowski et al. 1985: 309 [as nomen nudum].

**Comments and note.** Attributed to A.W. Knoch, but the description is unknown.

#### ***Cantharis figurata* v. *infuscata* Grill, 1896**

*Cantharis figurata* Mannh. v. *infuscata* (J. Sahlberg) Grill, 1895-1896: 235 nomen nudum. Locus typicus: “Mellersta delen och N. Finl.” [= Middle part and North Finland].

*Cantharis figurata* Mann. v. *infuscata* J. R. Sahlberg, 1900: 84 nomen nudum. Locus typicus “Tavastia landskapet Tavastland, Karelia rossica hela Ryska Karelen från Svir till polcirkeln, Ostrobothnia borealis norra Österbotten”.

Jakobson 1911: 677.

**Comments and note.** Grill attributes it to J. Sahlberg, but I could not find the description (perhaps not even present), if not a quote of Sahlberg himself, subsequently to that of Grill.

### ***Malthodes amaurus Andrei & Petrescu, 2009***

*Malthodes amaurus* Andrei & Petrescu, 2009: 539 [identification by J. Bourgeois, in coll. Montandon] nomen nudum. Locus typicus “Bucureşti” [= Bucharest].

ACKNOWLEDGEMENTS. I am very grateful to Sam W. Heads and M. Jared Thomas (Illinois Natural History Survey) for some photocopies. I also express my heartfelt thanks to Thomas Pape and Tom Schiøtte (Natural History Museum of Denmark) for the information on some old “naturalists”.

## REFERENCES

- ALLENSPACH V. & WITTMER W. 1979: *Insecta Helvetica Catalogus 4. Coleoptera: Cantharoidea, Cleroidea, Lymexyloidea*. Zürich: Schweizerischen Entomologischen Gesellschaft, 139 pp.
- ANDREI G. & PETRESCU A. 2009: Collections donated by Arnold L. Montandon to the Museum of Zoology of Bucharest within the period 1900-1901. *Travaux du Muséum National d'Histoire Naturelle "Grigore Antipa"* 52: 523-558.
- ANIMALBASE PROJECT GROUP 2005-2018: AnimalBase. Early zoological literature online. - World wide web electronic publication ([www.animalbase.uni-goettingen.de](http://www.animalbase.uni-goettingen.de)).
- BACH M. 1851: Entomologische Kleinigkeiten. Fortsetzung. *Verhandlungen des naturhistorischen Vereines der preussischen Rheinlande und Westphalens* 8: 43-51.
- BACH M. 1852: *Käferfauna für Nord- und Mitteldeutschland mit besonderer Rücksicht auf die preußischen Rheinlande. Zweiter Band, Lieferungen 3*. Coblenz: J. Hölscher, [6] + 148 pp.
- BAUDI DI SELVE F. 1872: Europeae et circummediterraneae Faunae Dascillidum et Malacodermatum specierum, quae Comes Dejean in suo Catalogo ed. 3<sup>a</sup> consignavit, ex ejusdem collectione in R. Taurinensi Musaeo asservata, cum auctorum hodierne recepta denominatione, collatio. *Berliner Entomologische Zeitschrift* 15(1871): 89-130.
- BERTOLINI S. DE 1872-78: *Catalogo sinonimico e topografico dei Coleotteri d'Italia*. Firenze: Tipografia Cenniniana, 263 pp. [cfr. Malacodermata: pp. 128-137 (1874) e 246 (1878)].
- BOUSQUET Y. 2016: Literatura Coleopterologica (1758-1900): a guide to selected books related to the taxonomy of Coleoptera with publication dates and notes. *ZooKeys* 583: 1-776.
- BRÜNNICH M. T. 1761: *Prodromus Insectologiae Stiellandicae, quem dissertationis loco publico examini submittit Martinus Thrane Brünniche Hafnia-Danus, defendantis spartam ornante præstantissimo et doctissimo urbano Bruun Aascow, philosoph. baccalaure. et medic. studioso in auditorio Collegii Regii. Die 23. Aprilis MCCLXI. [sic!] h.ad.m.f. Hafniæ: Andreea Hartvigi Godiche*, 31 pp.
- BURAKOWSKI B., MROCKOWSKI M. & STEFANSKA J. 1985: *Chrząszcze - Coleoptera. Buprestoidea, Elateroidea i Cantharoidea. Katalog Fauny Polski 23, tom 10*. Warszawa: P.W.N., 1-401, 1 map.
- COLEOPTERA POLONIAE: <http://coleoptera.ksib.pl> [accessed 30 November 2018].
- CONSTANTIN R. 2014a: Observations sur des Cantharidae de France et description de deux espèces nouvelles (Coleoptera, Elateroidea). *Bulletin de la Société entomologique de France* 119(1): 91-108.
- CONSTANTIN R. 2014b: *Drilidae, Omalisidae, Lycidae, Lampyridae, Cantharidae (Elateroidea)*, pp. 437-446. In: TRONQUET M. & al., 2014: *Catalogue des Coléoptères de France*. Perpignan: Association Roussillonnaise d'Entomologie éd., 1052 pp.
- DAY M. C. & FITTON M. G. 1977: Discovery in the Linnaean collection of type - material of insects described by Johann Reinhold Forster, with notes on the Hymenoptera. *Biological Journal of the Linnean Society* 9: 31-43.
- DE CRISTOFORI [DE CRISTOFORIS] G. & JAN G. 1832: *Catalogus in IV. sectiones divisus rerum naturalium in Museo existantium Josephi De Cristofori et Georgii Jan plurium Acad. scient. et Societ. nat. cur. sodalium complectens adumbrationem oryctognosiae et geognosiae atque prodromum faunae et florae Italiae Superioris. / Cataloghi sistematici e descrittivi degli oggetti di storia naturale esistenti nel museo di Giuseppe De Cristofori e Prof. Giorgio Jan Socii di varie Accademie scientifiche contenenti Il Prodromo della Fauna, della Flora e della Descrizione Orittognostico-Geognostica dell'Italia Superiore. Sectio III.<sup>a</sup> Entomologia. Pars I.<sup>a</sup> Conspectus methodicus insectorum. Fasc. I.<sup>us</sup> Coleoptera*. Milano / Mediolani: Giovanni Pirotta, [3] + 111 pp.

- DEJEAN P. F. M. A. 1821: *Catalogue de la collection de Coléoptères de M. le Baron Dejean*. Paris: Crevot Libraire, viii + 138 + [2] pp.
- DEJEAN P. F. M. A. 1833: *Catalogue des Coléoptères de la collection de M. le Comte Dejean. Deuxième édition [Livraisons 1-2]*. Paris: Méquignon-Marvis Père et Fils, 1-176.
- DEJEAN P. F. M. A. 1836: *Catalogue des coléoptères de la collection de M. le Comte Dejean. Troisième édition, revue, corrigée et augmentée [Livraisons 1-4]*. Paris: Méquignon-Marvis Père et Fils, 1-384.
- DELKESKAMP K. 1939: *Pars 165: Cantharidae*. In: JUNK W. & SCHENKLING S. (eds): *Coleopterorum Catalogus*. 's-Gravenhage: Dr. W. Junk Verlag für Naturwissenschaften, 357 pp.
- DELKESKAMP K. 1977: *Coleopterorum Catalogus Supplementa. Pars 165 (Fasc. I), Cantharidae*. The Hague: W. Junk, 485 pp.
- DIÉGUEZ FERNÁNDEZ J. M. 2004: *Ancistronycha erichsonii* (Bach, 1852), nuevo para la fauna ibérica (Coleoptera: Cantharidae). *Heteropterus Revista de Entomología* 4: 85-86.
- DIÉGUEZ FERNÁNDEZ J. M. 2011: Nuevas citas y catálogo de los Cantharidae y Dasytidae (Coleoptera) del área iberobalear. *Heteropterus Revista de Entomología* 11(1): 75-85.
- DIÉGUEZ FERNÁNDEZ J. M., ANADÓN A., OCHARAN F. J., ROSA-GARCÍA R., VÁZQUEZ-FELECHOSA M., MELERO V. X., MONTESERÍN S. & OCHARAN R. 2006: La fauna de Cantharidae (Coleoptera) de la Reserva de la Biosfera de Muniellos (Asturias, Norte de España). *Boletín Sociedad Entomológica Aragonesa* 39: 251-255.
- DIÉGUEZ FERNÁNDEZ J. M., VALCÁREZ J. P. & PRIETO PILONA F. 2009: Contribución al conocimiento de los Cantharidae (Coleoptera) de Galicia (N.W. Península Ibérica). *Arquivos Entomológicos* 2: 25-30.
- DROVENIK B. 2001: Zanimivosti in novosti v favni sneženk (Coleoptera: Cantharidae) Slovenije. *Acta Entomologica Slovenica* 9(2): 153-167. [in Slovenian].
- DVOŘÁK L. 2012: Notes on soldier beetles (Coleoptera: Cantharidae) of montane forest stands in the Novohradské Hory Mts., Czech Republic. *Silva Gabreta* 18(2): 101-108.
- EDWARDS M. A. & HOPWOOD A. T. 1966: *Nomenclator Zoologicus. Vol. 6 (1946-1955)*. London: The Zoological Society of London, [7] + 329 pp.
- FABRICIUS J. C. 1801: *Systema Eleutherorum secundum ordines, genera, species adiectis synonymis, locis, observationibus, descriptionibus. Tomus I*. Kiliae: Bibliopolii Academicici Novi, xxiv + 506 pp.
- FALDERMANN F. 1835: Additamenta entomologica ad Faunam Rossicam in itineribus Jussu Imperatoris Augustissimi annis 1827-1831 a Cl. Ménériés et Szovitz susceptis collecta, in lucem edita. *Nouveaux Mémoires de la Société Impériale des Naturalistes de Moscou* (2)4: 1-310, 10 tables. [separate edition of 1836 with additional title: Fauna entomologica Trans-caucasica. Coleoptera. Pars I, Additamenta Entomologica ad Faunam Rossicam - Coleoptera Persico-Armeniaca, 314 pp.].
- FANTI F. 2014: Catalogo critico delle Cantharidae d'Italia (Insecta, Coleoptera). *Memorie della Società Entomologica Italiana* 91(1-2): 61-132.
- FORSTER J. R. 1770: *A catalogue of British insects*. Warrington: William Eyres, 16 pp.
- FORSTER J. R. 1771a: *A Catalogue of the Animals of North America. Containing, An Enumeration of the known Quadrupeds, Birds, Reptiles, Fish, Insects, Crustaceous and Testaceous Animals; many of which are New, and never described before. To which are added, short directions for Collecting, Preserving, and Transporting, all Kinds of Natural History Curiosities*. London: B. White, 43 pp. [Insect section reissued in the pages 151-162 of Pennant T., 1787: Supplement to the arctic zoology. London: Henry Hughs, viii + 163 pp.]. [reissued in 1882 by The Willughby Society under the title "Forster's catalogue of the animals of North America, or Faunula Americana"].
- FORSTER J. R. 1771b: *Novæ species insectorum. Centuria I*. Londini [= London]: T. Davies et B. White, viii + 100 pp.
- FREUDE H., HARDE K. W. & LOHSE G. A. 1979: *Die Käfer Mitteleuropas. Band 6: Diversicornia*. Krefeld: Goecke & Everts, 367 pp. [compares: pp. 18-51].
- GAUBIL J. 1849: *Catalogue synonymique des Coléoptères d'Europe et d'Algérie*. Paris: Maison Libraire, 296 + 1 pp.
- GEMMINGER M. & HAROLD E. F. von 1869: *Catalogus Coleopterorum hucusque descriptorum synonymicus et systematicus. Tom. VI. Rhipidoceridae, Dascillidae, Malacodermidae, Cleridae, Lymexylonidae, Cupesidae, Ptinidae, Bostrichidae, Ciodae*. Monachii: Sumptu E. H. Gummi, 1609-1800 + 5.

- GRILL C. E. 1895-1896: Förteckning öfver Skandinaviens, Danmarks och Finlands Coleoptera. Jämte deras synonymi och geografiska utbredning. *Entomologiska Föreningen*, Stockholm, vi + [1] + 426 + [1] pp. [published in two parts: pp. 1-184 in May 1895 or 25 September 1895, and vi + pp. 185-426 in December 1896 or 28 February 1897; title and preliminaries pages: 1896 and May 1896. Another title page is: *Catalogus coleopterorum Scandinaviae, Daniae et Fenniae. Adjectis synonymis gravioribus, observationibus et indicata singulorum distributione geographia*].
- GROLL E. K. 2017: Biographies of the Entomologists of the World. - Online database, version 8, Senckenberg Deutsches Entomologisches Institut, Müncheberg - URL: <http://sdei.senckenberg.de/biographies/index.php> [accessed 30 November 2018].
- HAMMER C. B. 1775: *Forsøg til en Norsk Natur-Historie. I. Deel. Udgiven paa det Typographiske Selskabs Bekostning. Fauna Norvegica eller Norsk Dyr-Rige*. Kiøbenhavn: H. C. Sander, 29 + 248 pp.
- HICKER R. 1925: Diversicornia. Malacodermata (pp. 487-578). In: WINKLER A. 1924-32: *Catalogus Coleopterorum regionis palaearcticae*. Wien: Editus ab A. Winkler, 1698 pp.
- ICZN (INTERNATIONAL COMMISSION ON ZOOLOGICAL NOMENCLATURE) 1999: *International Code of Zoological Nomenclature, Fourth Edition*. London: The International Trust for Zoological Nomenclature c/o The Natural History Museum of London, 306 pp.
- ILLIGER J. C. W. 1802: Zusätze, Berichtigungen und Bemerkungen zu Fabricii Systema Eleutheratorum. *Magazin für Insektenkunde* 1: 396-425.
- JAKOBSON G. G. 1911: *Zhuki Rossii i zapadnoy Evropy. Rukovodstvo k opredeleniyu zhukov. Vipusk 9*. St-Pétersburg: A. F. Devrjen, pp. 641-720, table 40 [in Russian].
- KAZANTZEV S. V. 1989: To the knowledge of Palaearctic Cantharidae (Coleoptera). On the genera *Bactrocantharis* Barovsky, *Ancistronycha* Märkel and *Islamocanthalis* Wittmer & Magis of the USSR. *Entomologica Basiliensis* 13: 239-245.
- KAZANTZEV S. V. 2004: A checklist of Cantharidae (Coleoptera) of the ex-USSR. *Russian Entomological Journal* 13(1-2): 23-34.
- KAZANTZEV S. V. 2005: A Review of *Ancistronycha* Märkel with the Description of *Atalantycha*, a New Nearctic Genus (Coleoptera: Cantharidae). *The Coleopterists Bulletin* 59(2): 204-210.
- KAZANTZEV S. V. 2010: New and little-known taxa of palaearctic soldier-beetles, with taxonomic notes (Cantharidae: Coleoptera). *Caucasian Entomological Bulletin* 6(2): 153-159. [in Russian with parts in English].
- KAZANTZEV S. V. 2011: An annotated checklist of Cantharoidea (Coleoptera) of Russia and adjacent territories. *Russian Entomological Journal* 20(4): 387-410.
- KAZANTZEV S. V. 2012: Fauna Europea: Cantharidae. In: KARSHOLT O., NIEUKERKEN E. J. VAN & DE JONG Y. S. D. M. (eds): *Fauna Europea: Coleoptera. Fauna Europea version 2.5. And last update 29 August 2013 version 2.6.2*, <http://www.faunaeur.org>.
- KAZANTZEV S. V. & BRANCUCCI M. 2007: Family Cantharidae Imhoff, 1856 (1815) (pp. 234-298). In: LÖBL I. & SMETANA A. (eds.): *Catalogue of Palaearctic Coleoptera. Vol. 4. Elateroidea, Derodontoidea, Bostrichoidea, Lymexyloidea, Cleroidea, Cucujioidea*. Stenstrup: Apollo Books, 935 pp.
- KIESENWETTER E. A. H. von 1852: Énumération des coléoptères trouvés dans le midi de la France et en Catalogne. (II<sup>e</sup> partie). *Annales de la Société Entomologique de France* (2)9 [1851]: 577-656, 1 plate.
- KIESENWETTER E. A. H. von & MÄRKEL J. C. F. 1847: Eine entomologische Excursion in Riesengebirge im Juli 1846. *Entomologische Zeitung* 8: 73-87.
- [KIESENWETTER E. A. H. von & SCHAUM H. R.] 1849: *Catalogus coleopterorum Europae*. Bautzen, 82 + 7 pp.
- KÖHLER F. & KLAUSNITZER B. 1998: Verzeichnis der Käfer Deutschlands. *Entomologische Nachrichten und Berichte* 4: 1-185.
- KOLBE W. 1919: Beiträge zur schlesischen Käferfauna. *Jahresheft des Vereins für schlesische Insektenkunde zu Breslau* 10-12: 29-37.
- KUSKA A. 1995: Omomilki (Coleoptera, Cantharidae): Cantharinae i Silinae Polski. *Monografie Fauny Polski* 21. Kraków: Polska Akademia Nauk, 201 pp.
- LECONTE J. L. M. D. 1851: Synopsis of the Lampyrides of Temperate North America. *Proceedings of the Academy of Natural Sciences of Philadelphia* 5: 331-347.
- LENTZ F. L. 1856: Kugellansche Räthsel für Entomologen. *Der neuen Preussischen Provinzial-Blätter*, 10: 49-62 [reprinted: *Kugellansche Räthsel für Entomologen*. Königsberg: E. I. Dalkowski, 14 pp.].
- LENTZ F. L. 1857: *Neues Verzeichniss der Preussischen Käfer*. Königsberg: E. J. Dalkowski, 170 pp. [part of this work was also issued in: *Der neuen Preussischen Provinzial-Blätter* 11: 45-64, 124-138, 248-273 and 12: 27-43, 109-126, 165-174].

- LENTZ F. L. 1861: Erster Nachtrag zum neuen Verzeichniss der Preussischen Käfer. Königsberg 1857. *Schriften der Königlichen Physikalisch-Ökonomischen Gesellschaft zu Königsberg* 1 [1860]: 139-146.
- LETZNER K. 1871: Verzeichniss der Käfer Schlesiens. *Zeitschrift für Entomologie* (N. F.) 2, Breslau, xxiv + 328 pp.
- LETZNER K. 1889: Fortsetzung des Verzeichnisses der Käfer Schlesiens. *Zeitschrift für Entomologie*, (N. F.) 14: 237-284.
- LIBERTI G. 1995: Famiglia Cantharidae (pp. 7-11). In: AUDISIO P., LIBERTI G., NARDI G. & POGGI R.: Coleoptera Polyphaga VIII (Cantharoidea, Dermestoidea) - Fasc. 53, 17 pp. In: MINELLI A., RUFFO S. & LA POSTA S. (Eds.): *Checklist delle specie della fauna italiana*. Bologna: Ed. Calderini.
- MACOVEI E. 2012: Lista speciilor de Cantharidae (Ord. Coleoptera) din România. *Acta Musei Tutovensis* 7: 246-248. [in Romanian with parts in English].
- MOTSCHULSKY V. DE 1853: Malthinides. *Études Entomologiques* [1852] 1: 1-15.
- NEAVE S. A. 1939-40: *Nomenclator Zoologicus. A List of the Names of Genera and Subgenera in Zoology from the Tenth Edition of Linnaeus 1758 to the End of 1935. Vols. 1-4 and Supplement*. London: The Zoological Society of London, xiv + 957 + 1025 + 1065 + 758 pp.
- PEEZ A. VON & KAHLEN M. 1977: *Die Käfer von Südtirol. Faunistisches Verzeichnis des aus der Provinz Bozen bisher bekannt gewordenen Koleopteren. Beilage-Band 2*. Veröffentlichungen des Museum Ferdinandeum Innsbruck, 525 pp.
- PIC M. 1920: Nouveautés diverses. *Mélanges Exotico-Entomologiques* 32: 1-28.
- PIC M. 1921a: Notes diverses, descriptions et diagnoses (Suite.). *L'Échange, Revue Linnéenne* 37(404): 5-6.
- PIC M. 1921b: Nouveautés diverses. *Mélanges Exotico-Entomologiques* 33: 1-32.
- PONTOPPIDAN E. L. 1763: *Den Danske Atlas eller Konge-Riget Dannemark, Med dets Naturlige Egenskaber, Elementer, Indbyggere, Værter, Dyr og andre Affodninger, Dets gamle Tildragelser og nærværende Omstændigheder i alle Provintz, Stæder, Kirker, Slotte og Herre-Gaarde. Forestillet ved en udførlig Lands-Beskrivelse, saa og oplyst med dertil forsværdige Land-Kort over enhver Provintz, samt ziret med Stædersnes Prospector, Grund-Ridser, og andre merkværdige Kaaber-Stykker. Efter Søy-Kongelig allernaadigst Befalning. Tomus I*. København: A. H. Godiche, [6] + xl + [4] + 723 + [1] pp. + 30 plates, 1 map. [German translation (released posthumously) of the pages 301-700 in 1765: *Erich Pontoppidan, Kurzgefasste Nachrichten, die Naturhistorie in Dänemark betreffend. Aus dem Dänischen übersetzt. Mit Kupfern*. Kopenhagen und Hamburg, 232 pp. And German translation (released posthumously) in 1766-1767: *Erich Pontoppidan, Dänischer Atlas, oder Beschreibung des Königreichs Dänemark, nach seiner politischen und physikalischen Beschaffenheit. Mit Landkarten und andern Kupferstichen versehen. Aus dem Dänischen übersetzt, und mit Anmerkungen begleitet von Johann Adolph Scheiben*. Kopenhagen und Hamburg (Erster Band. Erster Theil. In 1766, xxxii + 464 pp. + 17 plates)].
- SAHLBERG J. R. 1900: Catalogus Coleopterorum Faunae Fenniae geographicus cum mappis duabus geographicis. *Acta Societatis pro Fauna et Flora Fennica* 19(4): i-viii + 132 pp. + 2 maps.
- [SCHMIDT W. L. E. 1839]: *Verzeichniss europäischer Käfer*. Stettin, 58 pp.
- SCHMIDT W. L. E. 1840: Verzeichniss böhmischer Käfer. *Entomologische Zeitung Herausgegeben von dem Entomologischen Vereine zu Stettin* 1: 28-32.
- [SCHMIDT W. L. E.] 1844: *Catalogus Coleopterorum Europae*. Zusammengestellt auf Veranlassung des Entomologischen Vereins zu Stettin. Stettin, 76 + [6] pp.
- SCHÖNHERR C. J. 1808: *Synonymia Insectorum oder: Versuch einer Synonymie Aller bisher bekannten Insecten; nach Fabricii Systema Eleutheratorum &c. geordnet. Mit Berichtigungen und Anmerkungen, wie auch Beschreibungen neuer Arten und illuminirten Kupfern*. Erster Band. Eleutherata oder Käfer. Zweiter Theil. Stockholm: Carl Friedr. Marquardt, ix + [1] + 424 pp., 4 plates.
- SCHRANK F. VON P. 1781: *Enumeratio insectorum Austriae indigenorum. Cum figuris. Avgvstae Vindelicorvm [= Augsburg]*: Vidvam Eberhardi Klett et Franck, [22] + 548 + [2 (Errata)] pp. + 4 plates.
- SCHRANK F. VON P. 1785: Verzeichniss beobachteter Insecten im Fürstenthume Berchtesgaden. *Neues Magazin für die Liebhaber der Entomologie* 2(4): 313-345.
- SHERBORN C. D. 1902: *Index animalium sive index nominum quae ab A.D. MDCCCLVIII generibus et speciebus animalium imposita sunt. Sectio prima. A Kalendis Ianuariis, MDCCCLVIII usque ad finem Decembris, MDCCC. Cantabrigiae: Typographico Academicō*, lix + 1.195 pp.
- SHERBORN C. D. 1922-32: *Index animalium sive index nominum quae ab A.D. MDCCCLVIII generibus et speciebus animalium imposita sunt. Sectio secunda. A Kalendis Ianuariis, MDCCCI usque ad finem Decembris, MDCCCL*. London: Longmans, Green & Co. & British Museum (Natural History), cxxxii + 7056 pp.

- SIEBOLD C. T. E. von 1847: Beiträge zur Fauna der wirbellosen Thiere der Provinz Preussen. (Zehnter Beitrag). Die preussischen Käfer. *Neue Preussische Provinzial-Blätter* 3: 350-367.
- STRØM H. 1768: *Beskrivelse over Norske Insepter. Andet Stykke (pp. 313-371, Tab. XVI)*. In: *Det Kongelige Norske Videnskabers Selskabs Skrifter: Fierde Deel*. Kjøbenhavn: Friderich Christian Pelt [translated into German in 1770].
- STRØM H. 1770: Beschreibung Norwegischer Insekten. Zweites Stücke (pp. 265-310, Tab. XVI). In: *Der Königlich Norwegischen Gesellschaft der Wissenschaften Schriften aus dem Dänischen übersetzt. Vierter Theil*. Kopenhagen und Leipzig: Friedrich Christian Pelt [German translation of: Det Kongelige Norske Videnskabers Selskabs Skrifter. Fierde Deel].
- STURM J. 1826: *Catalog meiner Insecten-Sammlung. Erster Theil. Käfer. Mit 4 ausgemalten Kupfertafeln*. Nürnberg: Verfasser, viii + 207 + 16 + [2 Avertissement] pp. + 4 plates.
- STURM J. 1843: *Catalog der Kaefer-Sammlung. Mit 6 ausgemalten Kupfertafeln*. Nürnberg: J. Sturm, xii + 386 pp. + 6 plates.
- ŠVIHLA V. 1993: Cantharidae. In: JELÍNEK J. (ed.): Check-list of Czechoslovak Insects. IV (Coleoptera). *Folia Heyrovskyaná Supplementum* 1: 1-172.
- ŠVIHLA V. 1999: Contribution to the knowledge of the genus *Cantharis* L. and related genera from Turkey and adjacent regions (Coleoptera, Cantharidae). *Entomologica Basiliensis* 21: 135-170.
- VILLERS C. J. de 1789: *Caroli Linnei entomologia, Faunæ Suecicæ descriptionibus aucta; DD. Scopoli, Geoffroy, de Geer, Fabricii, Schrank, &c., speciebus vel in Systemate non enumeratis, vel nuperrime detectis, vel speciebus Galliæ Australis locupletata, generum specierumque rariorum iconibus ornata; Curante & augente Carolo de Villers. Tomus Primus*. Lugduni [= Lyon]: Piestre et Delamolliere, [4] + xvi + 765 + [1 (lectori benevolo)] pp. + 3 plates.
- WEIGEL J. A. V. 1805: Faunae Silesiacae prodromus. Verzeichniss der Thiere, die in Schlesien bisher entdeckt und bestimmt sind. *Geographische, naturhistorische und technologische Beschreibung des souverainen Herzogthums Schlesien* 10: viii + 358 pp.
- WITTMER W. 1953: Notizen über Malacodermata unter besonderer Berücksichtigung der Typen von Fabricius und Wiedemann. *Entomologiske Meddelelser* 26(7): 525-528.
- WITTMER W. 1997: Neue Cantharidae (Col.) aus dem indo-malaiischen und palaearktischen Faunengebiet mit Mutationen. 2. Beitrag. *Entomologica Basiliensis* 20: 223-366.
- YANG Y-X., BRANCUCCI M. & YANG X. K. 2009: Synonymical notes on the genus *Micropodabrus* Pic, 1920 and related genera (Coleoptera, Cantharidae). *Entomologica Basiliensis et Collectionis Frey* 31: 49-54.
- ZEBE G. 1852: Synopsis der bisher in Deutschland aufgefundenen Coleoptera. (Fortsetzung). *Entomologische Zeitung. Herausgegeben von dem entomologischen Vereine zu Stettin* 13: 455-462.

Received: 5.12.2018

Accepted: 20.12.2018

Printed: 31.3.2019

