

**Nomenclatural notes on the genera
Amphicoma and *Anthypna*
(Coleoptera: Scarabaeoidea: Glaphyridae)**

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Abstract. The history of the generic names *Anthypna* Eschscholtz, 1818 and *Amphicoma* Latreille, 1807 is briefly introduced and clarified. Up-to-date checklist of both genera is provided. Following new combinations are established: *Anthypna ciliata* (Ménétrières, 1836) **comb. nov.**, *Anthypna meles* (Fabricius, 1793) **comb. nov.**, *Amphicoma birmanica* (Arrow, 1938) **comb. nov.**, *Amphicoma brittoni* (Endrődi, 1952) **comb. nov.**, *Amphicoma carcelii* (Laporte, 1832) **comb. nov.**, *Amphicoma carinata* (Endrődi, 1952) **comb. nov.**, *Amphicoma dolorosa* (Fairmaire, 1891) **comb. nov.**, *Amphicoma dubia* (Semenov, 1891) **comb. nov.**, *Amphicoma endroedii* (Petrovitz, 1965) **comb. nov.**, *Amphicoma fairmairei* (Semenov, 1891) **comb. nov.**, *Amphicoma fruhstorferi* (Endrődi, 1952) **comb. nov.**, *Amphicoma iberica* (Drioli, 1980) **comb. nov.**, *Amphicoma klapperichi* (Endrődi, 1952) **comb. nov.**, *Amphicoma latouchei* (Fairmaire, 1899) **comb. nov.**, *Amphicoma purpuripennis* (Petrovitz, 1972) **comb. nov.**, *Amphicoma riaultii* (Fairmaire, 1897) **comb. nov.**, *Amphicoma tesari* (Endrődi, 1952) **comb. nov.**, *Amphicoma tonkinia* (Petrovitz, 1972) **comb. nov.**, and *Amphicoma yunnanica* (Petrovitz, 1972) **comb. nov.**

Taxonomy, nomenclatural history, new combinations, checklist, *Amphicoma*, *Anthypna*, Glaphyridae, Scarabaeoidea, Coleoptera, Palearctic and Oriental Regions

Introduction

The generic names *Anthypna* Eschscholtz, 1818 and *Amphicoma* Latreille, 1807 have been confused and erroneously interpreted for almost two centuries. The name *Anthypna* was attributed either to Latreille (Arrow 1912, Baraud 1992) or Eschscholtz (Lacordaire 1856, Chapin 1938). For the genus *Amphicoma*, two different type species could be found in taxonomic literature (compare Reitter 1903 and Baraud 1992 with Chapin 1938, Paulian 1945, and Miyake 1982). These misinterpretations are due to conflicting concepts of these genera by different authors.

The main goals of the present paper are: (1) to clarify the history of generic names *Amphicoma* and *Anthypna* and (2) to provide up-to-date checklists of both these genera.

History

Since the catalogue by Harold (1869) was published, the generic name *Anthypna* was attributed to Latreille, with 1807 as the date of publication. This authorship was repeatedly used in nearly all major European catalogues and monographs dealing with Scarabaeoidea (Reitter 1903, 1906, Arrow 1912, Winkler 1929, Endrődi 1952, Medvedev 1960, Baraud 1992). However, Latreille (1807) described and/or listed other glaphyrid genera, namely *Amphicoma* and *Glaphyrus*, but he neither described nor mentioned the genus *Anthypna*. *Anthypna* is also absent from his later publications (Latreille 1810, 1817).

The first description of the genus *Anthypna* appeared in Eschscholtz (1818). Unfortunately, he (1818) did not fix a type species. The generic name *Anthypna* is derived from two Greek words: flower and sleep, which refer not only to typical glaphyrid behaviour, but also to that of hopliines, causing them to sometimes be placed in the same group. Eschscholtz (1818) included the following eight species in the genus *Anthypna*:

Anthypna ursus (Fabricius, 1775) – currently *Anisonyx ursus* (Fabricius, 1775), Scarabaeidae: Melolonthinae: Hopliini (Schein 1959);

Anthypna bombylifformis (Pallas, 1781) (erroneously attributed to Herbst) – currently *Eulasia bombylifformis* (Pallas, 1781), Glaphyridae (Baraud 1992);

Anthypna arctos (Pallas, 1781) (erroneously attributed to Herbst) – currently *Eulasia arctos* (Pallas, 1781), Glaphyridae (Baraud 1992);

Anthypna lynx (Fabricius, 1776) – currently *Anisonyx lynx* (Fabricius, 1776), Scarabaeidae: Melolonthinae: Hopliini (Schein 1959);

Anthypna crinita (Fabricius, 1776) – currently a junior subjective synonym of *Anisonyx longipes* (Linnaeus, 1764), Scarabaeidae: Melolonthinae: Hopliini (Schein 1959);

Anthypna cyanipennis (Fabricius, 1801) – currently a junior subjective synonym of *Anthypna meles* (Fabricius, 1793), Glaphyridae (Baraud 1992);

Anthypna hirta (Fabricius, 1781) – currently a junior subjective synonym of *Pygopleurus vulpes* (Fabricius, 1781), Glaphyridae (Baraud 1992);

Anthypna vulpes (Fabricius, 1781) – currently *Pygopleurus vulpes* (Fabricius, 1781), Glaphyridae (Baraud 1992).

Latreille (1829), in the second edition of his “Le Règne Animal”, listed the name *Anthypna* and correctly attributed it to Eschscholtz. However, his redescription of this genus differed somewhat from that of Eschscholtz. For example, Eschscholtz described the antennal club as rounded (“clava orbiculata”), but Latreille mentioned it as oval with free antennomeres (“la massue des antennes est formée de feuillettes libres et ovale”). Burmeister (1844) correctly noted that Latreille altered the original Eschscholtz description, as he stated on p. 21: “Latreille hat den namen auf diese von Eschscholtz nicht mit dahin gezogene Gattung übertragen” (= Latreille transferred this name to the genus, which was not intended by Eschscholtz). This was also noted by Lacordaire (1856). Unfortunately, this discrepancy was largely ignored by subsequent authors, who used the name *Anthypna* in the sense of Latreille (1829). To further complicate matters, the erroneous author and date “Latreille, 1807” was often cited for *Anthypna*.

Chapin (1938), in his contribution to the generic nomenclature of the family Glaphyridae correctly attributed the name *Anthypna* to Eschscholtz and selected *Melolontha cyanipennis* Fabricius, 1801 as type species of this genus.

The genus *Amphicoma* was originally described by Latreille (1807). Latreille divided his new genus into two groups: (1) species with antennal club rounded and compact and (2) species with antennal club oval, lamellate. Into the first group he included following species:

- Amphicoma meles* (Fabricius, 1793) (under incorrect spelling *A. melis*) – currently *Anthypna meles* (Fabricius, 1793) **comb. nov.**, Glaphyridae (Baraud 1992);
Amphicoma cyanipennis (Fabricius, 1801) – currently a junior subjective synonym of *Anthypna meles* (Fabricius, 1793), Glaphyridae (Baraud 1992);
Amphicoma hirta (Fabricius, 1781) – currently a junior subjective synonym of *Pygopleurus vulpes* (Fabricius, 1781), Glaphyridae (Baraud 1992);
Amphicoma vulpes (Fabricius, 1781) – currently *Pygopleurus vulpes* (Fabricius, 1781), Glaphyridae (Baraud 1992);
Amphicoma bombylius (Fabricius, 1787) – currently *Eulasia bombylius* (Fabricius, 1787), Glaphyridae (Baraud 1992);
Amphicoma vittata (Fabricius, 1775) – currently *Eulasia vittata* (Fabricius, 1775), Glaphyridae (Baraud 1992).

The second group included only the species *Amphicoma abdominalis* (Fabricius, 1781). Of the listed species, only *A. meles* and *A. abdominalis* were redescribed, and the remaining species were only listed. Latreille (1807) did not designate a type species of the genus *Amphicoma* with the original description, but he subsequently designated *A. abdominalis* as the type species for this genus (Latreille 1810).

Subsequent authors overlooked the fixation of *A. abdominalis* as type species of the genus *Amphicoma* with some citing *A. meles* (the first mentioned species in the original description) as the type (Medvedev 1960, Baraud 1992). As a result of this, the genus *Amphicoma* has been incorrectly applied in the majority of modern publications on Glaphyridae.

Summary of nomenclatural changes, including a checklist of the genera *Anthypna* and *Amphicoma*

Exact data, as given in primary descriptions, are cited for type localities. Authors' comments are found in square brackets.

***Anthypna* Eschscholtz, 1818**

Anthypna Eschscholtz, 1818: 472 (type species: *Melolontha cyanipennis* Fabricius, 1801 (= *M. meles* Fabricius, 1793); subsequent designation by Chapin (1938: 80)).
 syn. *Psilodema* Blanchard, 1845: 211 (type species *Melolontha meles* Fabricius, 1793; by monotypy).

Genus includes two species occurring in Palearctic Region:

Anthypna ciliata (Ménétrières, 1836: 150) **comb. nov.** (*Amphicoma*) (type locality: “environs de Constantinople” [NW Turkey, Istanbul env.]).

syn. *Amphicoma mustela* Waltl, 1838: 459 (type locality: “Balkan” [Balkan Peninsula]).

Anthypna meles (Fabricius, 1793: 183) **comb. nov.** (*Melolontha*) (type locality: “Barbaria” [N Africa]).

syn. *Melolontha cyanipennis* Fabricius, 1801: 184 (type locality: “Tanger” [N Morocco, Tanger]).

Amphicoma Latreille, 1807

Amphicoma Latreille, 1807: 118 (type species: *Melolontha abdominalis* Fabricius, 1781; subsequent designation by Latreille (1810: 428)).

syn. *Arrhophora* Fairmaire, 1891: 8 (type species: *Arrhophora chalconchrysea* Fairmaire, 1891; subsequent designation by Chapin (1938: 82)).

syn. *Toxocerus* Fairmaire, 1891: 7 (type species: *Toxocerus rothschildii* Fairmaire, 1891; by monotypy).

syn. *Anthypnoides* Yawata, 1942: 34 (type species: *Anthypnoides splendens* Yawata, 1942; by original designation).

syn. *Thypnia* Endrődi, 1952: 4 (*Anthypna* subgen.) (type species: *Anthypna carcelii* Laporte, 1832; by original designation).

Genus includes 30 species and subspecies occurring in Palaearctic and Oriental Regions:

Amphicoma abdominalis abdominalis (Fabricius, 1781: 496) (*Melolontha*) (type locality: “Italia” [Italy]).
syn. *Melolontha alpina* Olivier, 1789: 83 (type locality: “Genève” [Switzerland, Geneva]).

Amphicoma abdominalis aemiliana (Ghidini, 1956: 61) (*Anthypna*) (type locality: “regione bolognese e modenese” [N Italy, Emilia-Romagna prov., Bologna and Modena env.]).

Amphicoma abdominalis binaghii (Ghidini, 1956: 60) (*Anthypna*) (type locality: “Liguria orientale e territori a Sud dell’Appennino settentrionale” [NW Italy, Liguria prov.]).

Amphicoma aurata (Yawata, 1942: 36) (*Anthypnoides*) (type locality: “Formosa” [SE China, Taiwan prov.]).

Amphicoma birmanica (Arrow, 1938: 290) **comb. nov.** (*Anthypna*) (type locality: “N.E. Burma: Kambaiti, 7000 ft” [NE Burma, Kachin State, Kambaiti Pass]).

Amphicoma brittoni (Endrődi, 1952: 17) **comb. nov.** (*Anthypna*) (type locality: “Südchina, Kolav, S. Shan St /4000ft” [S China]).

Amphicoma carcelii (Laporte, 1832: 411) **comb. nov.** (*Anthypna*) (type locality: “Tivoli, Italie” [C Italy, Lazio prov., Tivoli]).

syn. *Amphicoma romana* Duponchel, 1833: 254 (type locality: “Italie, lac d’Albano, Rome” [C Italy, Lazio prov., d’Albano lake, Roma]).

Amphicoma carinata (Endrődi, 1952: 34) **comb. nov.** (*Anthypna*) (type locality: “China: Fukien, Foochow” [SE China, Fujian prov., Fuzhou]).

Amphicoma corinthia (Fairmaire, 1891: 9) (*Arrhophora*) (type locality: “Hong-kong” [SE China, Hong Kong prov.]).

Amphicoma davidis (Fairmaire, 1886: 323) (*Anthypna*) (type locality: “Yunnan” [S China, Yunnan prov.]).

Amphicoma dolorosa (Fairmaire, 1891: 8) **comb. nov.** (*Arrhophora*) (type locality: “Kiu-Kiang” [SE China, Jiangxi prov., Jiujiang]).

Amphicoma dubia (Semenov, 1891: 330) **comb. nov.** (*Anthypna*) (type locality: “Chinae prov. Gansu: monasterium Dschoni” [China, Gansu prov.]).

Amphicoma endroedii (Petrovitz, 1965: 350) **comb. nov.** (*Anthypna*) (type locality: “Tuyen-Kan, Tonkin” [N Vietnam, Tuyen Quang prov.]).

- Amphicoma fairmairei* (Semenov, 1891: 330) **comb. nov.** (*Anthypna*) (type locality: "Chinae prov. Gan-ssu: Vu-tschi, haud procul a monast. Dschoni" [China, Gansu prov.]).
- Amphicoma florentini* (Fairmaire, 1893: 287) (*Toxocerus*) (type locality: "Lang-Song" [N Vietnam, Lang Son prov., Lang Son]).
- Amphicoma formosana* Miyake, 1982: 173 (type locality: "Paoshan, near Liukuei, Kaohsiung Hsien, Taiwan" [SE China, Taiwan prov., Liu Kuei env.]).
- Amphicoma fruhstorferi* (Endrődi, 1952: 23) **comb. nov.** (*Anthypna*) (type locality: "Tonkin: Montes Mauson" [N Vietnam, Lang Son prov., Mt. Manson]).
- Amphicoma iberica* (Drioli, 1980: 345) **comb. nov.** (*Anthypna*) (type locality: "Spagna, Vecchia Castiglia, versante nord della Sierra de Francia" [W Spain, Castile and Leon prov., Sierra de Francia Mts]).
- Amphicoma jucunda* (Arrow, 1938: 288) (*Anthypna*) (type localities: "Tonkin: Chapa, Laos: Pak-lay" [N Vietnam, Lao Cai prov., Chapa; W Laos, Pak-Lay]).
- Amphicoma klapperichi* (Endrődi, 1952: 31) **comb. nov.** (*Anthypna*) (type locality: "China: Fukien – Kuatun" [SE China, Fujian prov., Shaowu env., Kuatun]).
- Amphicoma latouchei* (Fairmaire, 1899: 617) **comb. nov.** (*Toxocerus*) (type locality: "Koua-Toun, Szé-Tchouen" [C China, Sichuan prov.]).
- Amphicoma pectinata* (Lewis, 1895: 388) (*Anthypna*) (type locality: "Tokio" [Japan, Tokyo]).
- Amphicoma purpuripennis* (Petrovitz, 1972: 28) **comb. nov.** (*Anthypna*) (type locality: "China, Hupé, Ichang" [CE China, Hubei prov., Yichang]).
- Amphicoma regalis* (Arrow, 1938: 289) (*Anthypna*) (type localities: "Tonkin: Chapa, Mauson Mts., Tam Dao" [N Vietnam, Lao Cai prov., Chapa; Lang Son prov., Mt. Manson; Vinh Phuc prov., Tam Dao]).
- Amphicoma riaultii* (Fairmaire, 1897: 243) **comb. nov.** (*Toxocerus*) (type locality: "Koui-tchéou" [S China, Guizhou prov.]).
- Amphicoma rothschildii* (Fairmaire, 1891: 7) (*Toxocerus*) (type locality: "Kiu-Kiang" [SE China, Jiangxi prov., Jiujiang]).
- syn. *Arrhophora chalcochrysea* Fairmaire, 1891: 8 (type locality: "Kiu-Kiang" [SE China, Jiangxi prov., Jiujiang]).
- Amphicoma splendens* (Yawata, 1942: 35) (*Anthypnoides*) (type locality: "Loo-choo (Yonakuni Island)" [Japan, Ryukyu Islands, Yonakuni Island]).
- Amphicoma tesari* (Endrődi, 1952: 32) **comb. nov.** (*Anthypna*) (type locality: "China: Kiukiang" [SE China, Jiangxi prov., Jiujiang]).
- Amphicoma tonkinea* (Petrovitz, 1972: 26) **comb. nov.** (*Anthypna*) (type locality: "Tonkin, Montes Mauson, 2000-3000 m" [N Vietnam, Lang Son prov., Mt. Manson]).
- Amphicoma yunnanica* (Petrovitz, 1972: 27) **comb. nov.** (*Anthypna*) (type locality: "China, Yünnan" [S China, Yunnan prov.]).

Acknowledgements

The authors would like to thank all those who helped with literature sources, mainly Mrs I. Chalupová (Department of Entomology, National Museum, Prague, Czech Republic), T. A. H. Gilissen (Nationaal Natuurhistorisch Museum, Leiden, The Netherlands), and I. Löbl (Muséum d'histoire naturelle, Genève, Switzerland). D. Král (Charles University, Prague, Czech Republic), and B. C. Ratcliffe, M. L. Jameson, and A. B. T. Smith (University of Nebraska State Museum, Lincoln, USA) kindly

commented on earlier versions of the manuscript. This study was executed with the financial support of the Academy of Sciences of the Czech Republic No. S5007015 to A. Bezděk, and S. J. Hawkins was supported by an NSF/PEET grant (DEB-0118669) to M. L. Jameson and B. C. Ratcliffe.

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