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Additional contribution to the knowledge of Dermestidae (Coleoptera: Bostrichoidea) from Baltic and Burmese ambers

Jiří HÁVA

Private Entomological Laboratory & Collection,
Rýznerova 37/37, CZ- 252 62 Únětice u Prahy, Prague-west, Czech Republic
e-mail: jh.dermestidae@volny.cz

Taxonomy, description, new species, Coleoptera, Dermestidae, Baltic amber, Burmese amber

Abstract. The species *Attagenus motykai* sp. nov. from Burmese amber is described, illustrated and compared with similar amber species.

INTRODUCTION

The beetle family Dermestidae (Coleoptera) currently contains 1.930 species and subspecies worldwide (Háva 2024). The fossil species were recently studied by the author and other colleagues and were published in the years 2015-2023 (eg. Bukejs & Háva 2018, Bukejs et al. 2020, 2023, Háva 2021, 2022, 2023a,b, Li et al. 2022).

The present article summarizes new specimens deposited in the author´s collection, and includes the description of a new species from Burmese amber.

MATERIAL AND METHODS

Mentioned materials are deposited in:

JHAC Jiří Háva, Private Entomological Laboratory and Collection, Únětice u Prahy, Prague-west, Czech Republic.

Nomenclature and systematics in this paper follow Motyka et al. (2022).

Specimen of the species described here are provided with red, printed label with text as follows: „HOLOTYPE *Attagenus motykai* sp. nov. Jiří Háva det. 2024."

RESULTS

BALTIC AMBER

Subfamily Megatominae Leach, 1815
Tribe Megatomini Leach, 1815

Globicornis (*Globicornis*) *samlandensis* Bukejs, Háva, McKellar & Alekseev, 2023

Material examined: 1 spec., Russia, Kaliningrad region, Baltic amber, No. JH/Gl/1/23, / Topotype / J. Háva det., (JHAC).

Remarks. Syninclusions consist of numerous small, organic particles. Second known specimen.

BURMESE AMBER

Subfamily Attageninae Laporte de Castelnau, 1840
Tribe Attagenini Laporte de Castelnau, 1840

Attagenus secundus Deng, Ślipiński, Ren & Pang, 2017

Material examined: 1 spec., Myanmar, Hukawng Valley, lowermost Cenomanian, J. Háva det., No. JH/sec/3, (JHAC); 1 spec., Myanmar, Hukawng Valley, lowermost Cenomanian, J. Háva det., No. JH/sec/4, (JHAC); 1 ♂, Myanmar, Hukawng Valley, lowermost Cenomanian, J. Háva det., No. JH/sec/5, (JHAC); 1 spec., Myanmar, Hukawng Valley, lowermost Cenomanian, J. Háva det., No. JH/sec/6, (JHAC).

Remarks. Syninclusions consist of numerous organic particles. This species is known only from Burmese amber (Háva 2021, 2023).

Attagenus motykai sp. nov.
(Figs. 1-2)

Type material. Holotype (unsexed): Myanmar, Hukawng Valley, lowermost Cenomanian, No. JH/BUR-Att/2024, (JHAC).

Remarks. Syninclusions consist of numerous small to minute organic particles.

Description. Body (Fig. 1) length 2.5 mm (measured from anterior margin of pronotum to elytral apex). Body oval, slightly convex dorsally; black throughout entire body; dorsal surface with dense, recumbent black setae; setae on ventral surface thinner than those on dorsal surface. Head, pronotum, and elytra with uniform, fine, dense punctures.

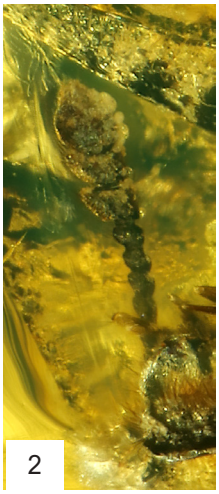
Head markedly narrower than anterior pronotal width, hypognathous, slightly declined. Eyes protruding laterally, entire, rounded, coarsely faceted, and widely separated. Single median ocellus not clearly visible, located frontally, between eyes. Antenna brown with 11 antennomeres, long; apical three antennomeres forming a distinct club (Fig. 2). Mandibles black. Palpomeres very narrow, dark brown.

Pronotum broad, anterior margin of pronotum arcuate, posterior margin bisinuate; posterior pronotal angle rounded. Posterior part without very short brown setae. Base of prothorax slightly narrower than elytral base. Dorsally slightly deformed.

Prosternum not forming a ‘collar’. Prosternal process short and narrowing gradually toward apex, rounded apically.

Scutellum small, triangular, with acute apex.

Elytron entire, covering entire abdomen posteriorly. Elytra slightly deformed. Each elytron with small humeral bump. Epipleuron well developed, not reaching the apex of the elytron.



Figs. 1-2. *Attagenus motykai* sp. nov.: 1- habitus, ventral aspect; 2- antenna.

Metasternum coarsely punctured with short black setae.

Legs long, dark brown. Tarsal formula 5-5-5, simple.

Abdomen with five visible abdominal ventrites; finely punctate, covered by short black setation.

Differential diagnosis. The genus *Attagenus* Latreille, 1802 from Burmese amber is represented by two known species *Attagenus secundus* Deng, Ślipiński, Ren et Pang, 2017 and *Attagenus lundi* Háva & Damgaard, 2017. The new species differs from the two known species by the characters in following key.

1(2) pronotum with very long setation on posterior parts; body length 2.8 mm ..... *Attagenus lundi* Háva & Damgaard, 2017

2(1) pronotum with short setation on posterior parts

3(6) median ocellus not clearly visible

4(5) pronotum medially long and broad, tibiae without spines, body length 2.0-2.2 mm ..... *Attagenus secundus* Deng, Ślipiński, Ren & Pang, 2017

5(4) pronotum medially short and broad, tibiae with spines, body length 2.5 mm ..... *Attagenus motykai* sp. nov.

6(3) median ocellus large and visible; body length 2.9 mm ..... *Attagenus coziki* Háva, 2023

Etymology. The new species is dedicated to entomologist, colleague and my very good friend, Michal Motyka (Olomouc, Czech Republic).

Subfamily Megatominae Leach, 1815
Tribe Anthrenini Gistel, 1848

***Anthrenus* (*Nathrenus*) *larvalis* (Cockerell, 1917)**

Material examined: 1 larva, Myanmar, Hukawng Valley, lowermost Cenomanian, J. Háva det., No.B5.la, (JHAC).

Remarks. This species is known only from larvae from Burmese amber.

Subfamily Megatominae Leach, 1815
Tribe Megatomini Leach, 1815

***Cretomegatoma atypica* (Deng, Slipinski, Ren & Pang, 2017)**

Material examined: 1 spec., Myanmar, Hukawng Valley, lowermost Cenomanian, J. Háva det., No. JH/AT/5, (JHAC).

Remarks. Syninclusions consist of numerous organic particles. This species is known only from Burmese amber (Háva 2021, 2023).

***Tuberphradonoma burmitica* Háva, 2021**

Material examined: 1 ♂, Myanmar, Hukawng Valley, lowermost Cenomanian, J. Háva det., No. JH/TBU/3, (JHAC).

Remarks. Syninclusions consist of numerous organic particles. This species is known only from Burmese amber (Háva 2021, 2023).

Subfamily Megatominae Leach, 1815

gen. et sp.

Material examined: 1 spec., Myanmar, Hukawng Valley, lowermost Cenomanian, J. Háva det., No. JH/BUin/1, (JHAC).

Remarks. Syninclusions consist of numerous organic particles. This specimen is destroyed, and is not described here.

Larval exuvia No. 1
(Fig. 3)

Material eaxamined: 1 larval exuvium, Myanmar, Hukawng Valley, lowermost Cenomanian, No.B.la.NG, (JHAC).

Remarks. The larval exuvium cannot be assigned to the described species, and is not described here.

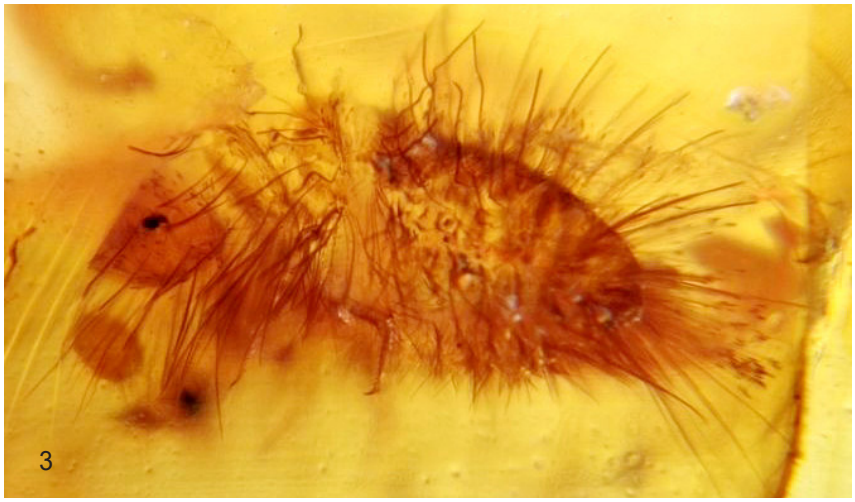


Fig. 3. Undescribed Megatominae larval exuvium: 3- habitus, lateral aspect

Larval exuvia No. 2
(Fig. 4)

Material eaxamined: 1 larval exuvium, Myanmar, Hukawng Valley, lowermost Cenomanian, No.JH/TR/2, (JHAC).

Remarks. The larval exuvium cannot be assigned to the described species, and is not described here.

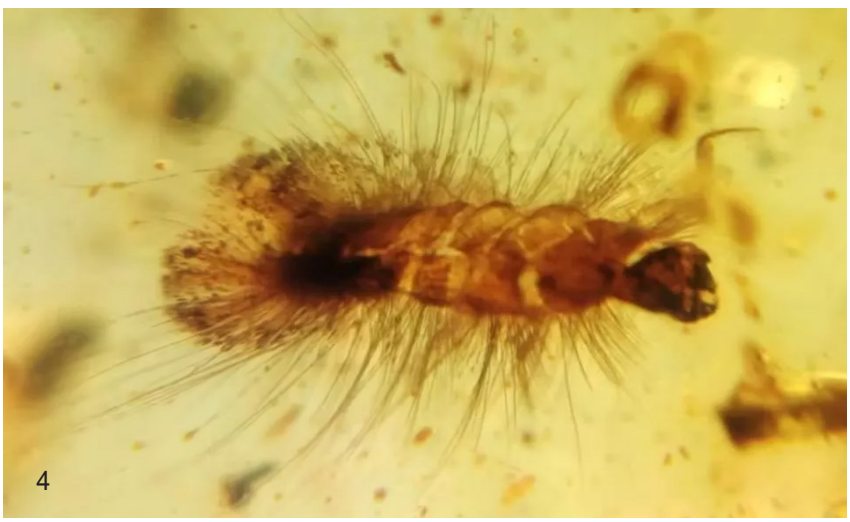


Fig. 4. Undescribed Megatominae larval exuvium: 4- habitus, lateral aspect

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