

Two new species of Ptinidae (Coleoptera) from Eocene Baltic amber

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HÁVA, J. & ZAHRADNÍK, P.: *Two new species of Ptinidae (Coleoptera) from Eocene Baltic amber.*

Abstract: Two new species, *Ernobius arturi* **sp. nov.** and *Xestobium michalskii* **sp. nov.** are described from Eocene Baltic amber.

Keywords: Taxonomy, new species, Coleoptera, Ptinidae, Ernobius, Xestobium, Baltic Amber, Poland

Introduction

The family Ptinidae (Coleoptera) from Baltic amber have been recently studied (ALEKSEEV 2012, 2013, 2014, ALEKSEEV & BUKEJS 2019a,b, ALEKSEEV et al. 2019, BUKEJS & ALEKSEEV 2015, BUKEJS et al. 2017, 2018, HÁVA & ZAHRADNÍK 2019a, b, 2020a,b, ZAHRADNÍK & HÁVA 2014, 2017, 2019).

Two new species belonging to genera *Ernobius* C. G. Thomson, 1859 and *Xestobium* Motschulsky, 1845 are described here from Eocene Baltic amber collected in Poland.

Material and methods

The habitus photograph was made by a digital camera using Canon EOS 4000D on stereobinocular microscope Nikon SMZ800 + SMZ1500 + PLAN APO lens.

The type material is deposited in the following collection:

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

Each specimen of the new species described here is provided with a red, printed label showing the following text: HOLOTYPE *Ernobius arturi* **sp. nov.** and *Xestobium michalskii* **sp. nov.** J. Háva & P. Zahradník det. 2020.

Results

Subfamily **Ernobiinae**

Ernobius arturi **sp. nov.**

Type material: Holotype (unsexed): Amber inclusion No. 5652, Poland, Gdansk city area, (JHAC).

The complete beetle is included in a transparent amber piece, with dimensions of 13×8×4 mm. Syninclusions consist of numerous minute organic particles.

Description of holotype: Body oval, shine (Fig. 1), transversally and longitudinally convex, body length 1.4 mm, the greatest width 0.6 mm (in amber situation). Pronotum, head, elytra, abdomen and legs black, antennae very dark brownish-black.

Head hypognathous, almost flattened, finely punctuated, punctures almost touched. Eyes large, rounded, slightly convex, glabrous. Antennae with 11- antennomeres, antennal club with 3- antennomeres (Fig. 2), with long setae. Palpi short, dark brownish-black.

Pronotum (Fig. 3) transverse, coarsely punctuated, shiny. The greatest width very shortly before base. Posterior angles obtusely rounded (in dorsal view); anterior part of pronotum slightly raised.

Elytra shortly oval, shining, with distinct shoulders, with very short setation. Each elytron with striae consisting of very small poorly defined punctures discally, defined near apex of elytron, and with two lateral striae consisting of large punctures, reaching to elytral apex. Prosternum and metasternum with large individual punctures laterally.

Legs robust and short, black, tarsi brownish-black.

All ventrites of the same length, with small punctures medially.

Differential diagnosis: The new fossil species differs from other known amber species by the structure of antennae and elytral punctuation; it is very similar to *Ernobius barticus* Alekseev, 2014 but differs from it by the black body colour and structure of antennae.

Etymology: Patronymic, dedicated to amber specialist Artur Michalski (Wroclaw, Poland).

Subfamily **Ernobiinae**

Xestobium michalskii **sp. nov.**

Type material: Holotype (unsexed): Amber inclusion No. 5390, Poland, Gdansk city area, (JHAC).

Complete beetle is included in transparent amber piece, with dimensions of 39×15×5 mm. Syninclusions consist of two specimens of Nematocera (Diptera), and numerous small to minute organic particles.

Description of holotype: Body shortly elongate, matt, transversally and longitudinally convex, body length 2.0 mm (in amber situation), width not measured. Pronotum, head, elytra and abdomen black, antennae and legs brown (Fig. 4-5).

Head hypognathous, almost flattened, finely punctuated. Eyes large, rounded, slightly convex, glabrous. Antennae with 11- antennomeres, antennal club with 3- antennomeres (Fig. 6). Palpi very short and broad, brown.



Figs. 1-3: *Ernobius arturi* sp. nov.: 1- habitus dorsal view; 2- antenna; 3- pronotum
(photo by A. Michalskii)



Figs. 4-6: *Xestobium michalskii* sp. nov.: 4- lateral view, right; 5- lateral view, left; 6- antenna (photo by A. Michalskii)

Pronotum transverse, coarsely punctuated. The greatest width very shortly before base. Posterior angles obtusely rounded (in dorsal view).

Elytra shortly oval, with distinct shoulders, covered by very short, decumbent setation. Each elytron with 12 striae very narrow, reaching to apex. Striae consist of very small punctures, their diameter twice as large as distance between them. Interstriae slightly wider than striae. Epipleuron very short.

Metasternum with very large punctures.

Legs brown, robust and short.

All ventrites of the same length; ventrites I and II with large punctures, ventrites III-V with small punctures.

Differential diagnosis: The genus *Xestobium* was mentioned from Baltic amber by Larsson (1978) and Spahr (1981) as a unnamed species. The mentioned specimen represents the first described species from amber. The new species differs from the recently described species by the structure of the elytral striation, and structure of antennae.

Etymology: Patronymic, dedicated to amber specialist Artur Michalski (Wroclaw, Poland).



**Figs. 7-8: *Syninclusions* specimens of Nematocera (Diptera)
(photo by J. Háva)**

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