

A new species of the genus *Stagetus* Wollaston, 1861 (Coleoptera: Ptinidae: Dorcatominae) from Eocene Baltic amber

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HÁVA, J. & ZAHRADNÍK, P.: *A new species of the genus Stagetus Wollaston, 1861 (Coleoptera: Prinidae: Dorcatominae) from Eocene Baltic amber.*

Abstract: A new species, *Stagetus arturi* sp. nov., from Eocene Baltic amber is described, illustrated and compared with a similar species, *S. makarovi* Zahradník, 1997.

Keywords: Taxonomy, new species, Coleoptera, Ptinidae, Dorcatominae, *Stagetus*, Eocene Baltic amber, Poland.

Introduction

The family Ptinidae (Coleoptera) from Baltic amber was recently studied by the following authors: 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,c, ZAHRADNÍK & HÁVA 2014, 2017, 2019.

A new species described here from Eocene Baltic amber collected in Poland belongs to the genus *Stagetus* Wollaston, 1861. The genus *Stagetus* Wollaston, 1861 currently contains about 70 species worldwide, 55 species and subspecies are known from Palaeartic Region (ZAHRADNÍK 2003, 2012, 2015, VIÑOLAS 2012, 2013, 2016a,b, 2017, VIÑOLAS & MASÓ 2006, TOSKINA 2012, 2015). The species described here is the first known species of *Stagetus* from Baltic amber.

Material and methods

The habitus photograph was taken 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.

Holotype specimen of the new species described here is provided with a red, printed label showing the following text: "Holotype *Stagetus arturi* sp. nov. J. Háva & P. Zahradník det. 2020".

Results

Subfamily **Dorcatominae**

Stagetus arturi **sp. nov.** (Figs. 1-2)

Type material: Holotype (unsexed): Amber inclusion No. 5946, Poland, Gdansk city area, (JHAC).

The complete beetle is included in a transparent amber piece, with dimensions of 30x23 mm. Syninclusions consist of numerous minute organic particles and one very small specimen of Acari (Arachnida).

Description of holotype: Body oval (Fig. 1), transversally and longitudinally convex, body length 1.3 mm, the greatest width 0.5 mm (in amber situation). Pronotum, head, elytra, abdomen and legs brown, antennae not visible.

Head hypognathous, almost flattened, finely punctured, punctures almost touched. Eyes large, rounded, slightly convex, glabrous. Antennae and palpi not visible.

Pronotum about as long as wide, trapeziform (Fig. 1), finely punctured, shiny, with very short yellow setation. The greatest width very shortly before base. Posterior angles obtusely rounded (in dorsal view); anterior part of pronotum slightly raised.

Scutellum triangular, very small.

Elytra shortly oval, shining, with distinct shoulders, with very short yellow setation. Each elytron with eleven striae consisting of punctures; punctures are large, defined distally and near apex of elytron, eleventh elytral stria ends at the second half of elytron. Prosternum and metasternum with small individual punctures laterally.

Legs robust and short, brown, tarsi short light brown.

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

Differential diagnosis: The new fossil species differs from other known recent Palaearctic species keyed by TOSKINA (2015) by the small body form, brownish cuticle and elytral striation. The new species belongs to the "*byrrhoides* species group" and is very similar to *S. makarovi* Zahradník, 1997, but differs from it by the following characters.

S. makarovi Zahradník, 1997: body length 1.7 mm, body light brown; setation white; setation on elytra double - very short, dense and recumbent, and long, sparse and erect; eleventh elytral stria ends at the first third of the length of elytron.

S. michalskii sp. nov.: body length 1.3 mm; body light brown; setation on elytra yellow, very short, not double; eleventh elytral stria ends at the second half of elytron.

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



Figs. 1-2: *Stagetus arturi* sp. nov.: 1- habitus in dorsal view; 2- habitus in ventral view (photo by A. Michalski)



Fig. 3: Amber inclusion with holotype *Stagetus arturi* sp. nov.
(photo by A. Michalski)

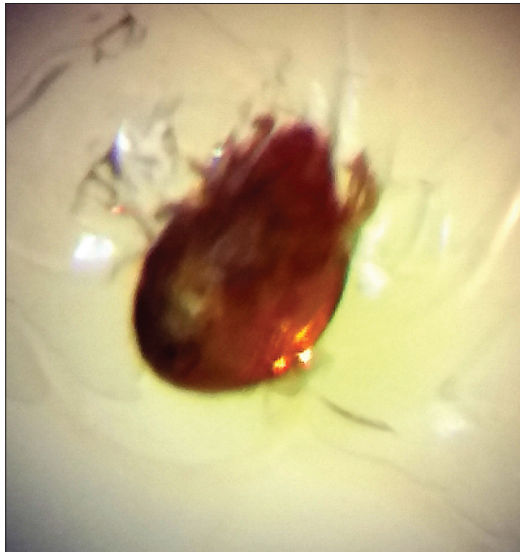


Fig. 4: Syninclusion specimen of Acari (Arachnida)
(photo by J. Háva)

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References

- ALEKSEEV, V. I. 2012: *Sucinoptinus bukejsi* sp. nov. (Coleoptera: Ptinidae: Ptinini), the second species of the Tertiary genus from the Baltic amber. - *Baltic Journal of Coleopterology* 12: 145-148.
- ALEKSEEV, V. I. 2013: The beetles (Insecta: Coleoptera) of Baltic amber: the checklist of described species and preliminary analysis of biodiversity. - *Zoology and Ecology* 23: 5-12. <https://doi.org/10.1080/21658005.2013.769717>
- ALEKSEEV, V. I. 2014: New fossil species of Ptinidae (Insecta: Coleoptera) in Baltic Amber (Tertiary, Eocene). - *Zoology and Ecology* 24(3):239-255. <https://doi.org/10.1080/21658005.2014.909154>
- ALEKSEEV, V. I. & BUKEJS, A. 2019a: Two new species of *Xyletinus* Latreille (Ptinidae: Xyletinae) in Eocene Baltic amber. - *Zootaxa* 4668(4): 525-534. <https://doi.org/10.11646/zootaxa.4668.4.5>
- ALEKSEEV, V. I. & BUKEJS, A. 2019b: *Xyletinus* (s. str.) *thienemanni* sp. nov., a new species of Xyletinae (Coleoptera: Ptinidae) from Eocene Baltic amber. - *Acta Biologica Universitatis Daugavpiliensis* 19(1): 31-35.
- ALEKSEEV, V. I., BUKEJS, A. & BELLÉS, X. 2019: *Dignoptinus*, a new genus for fossil *Dignomus regiomontanus* Alekseev from Eocene Baltic amber, and new status for *Bruchoptinus* Reitter and *Pseudoptinus* Reitter (Coleoptera: Ptinidae). - *Fossil Record* 22: 65-72. <https://doi.org/10.5194/fr-22-65-2019>
- BUKEJS, A. & ALEKSEEV, V. I. 2015: A second Eocene species of death-watch beetle belonging to the genus *Microbregma* Seidlitz (Coleoptera: Bostrichoidea) with a check list of fossil Ptinidae. - *Zootaxa* 3947(4): 553-562. <https://doi.org/10.11646/zootaxa.3947.4.6>
- BUKEJS, A., ALEKSEEV, V. I., COOPER, D. M. L., KING, G. A. & MCKELLAR, R. C. 2017: Contributions to the palaeofauna of Ptinidae (Coleoptera) known from Baltic Amber. - *Zootaxa* 4344(1): 181-188. <https://doi.org/10.11646/zootaxa.4344.1.12>
- BUKEJS, A., BELLÉS, X. & ALEKSEEV, V. I. 2018: A new species of *Dignomus* Wollaston (Coleoptera: Ptinidae) from Eocene Baltic amber. - *Zootaxa* 4486(2): 195-200. <https://doi.org/10.11646/zootaxa.4486.2.9>
- BUKEJS, A., HÁVA J. & ALEKSEEV, V. I. 2018: New fossil species of *Trichodesma* LeConte, 1861 (Coleoptera: Ptinidae) from Eocene Baltic amber collected in the Kaliningrad region, Russia. - *Paleontologia Electronica* 21(2): 1-7. <https://doi.org/10.26879/848>
- HÁVA, J. & ZAHRADNÍK, P. 2019a: A new *Falsolegastrallus* Pic, 1914 species (Coleoptera: Ptinidae) from Eocene Baltic amber. - *Studies and Reports, Taxonomical Series* 15(1): 59-62.
- HÁVA, J. & ZAHRADNÍK, P. 2019b: Two new species of the genus *Xyletinus* Latreille, 1809 in Eocene Baltic Amber (Coleoptera: Bostrichoidea: Ptinidae). - *Folia Heyrovskyana, Series A* 27(2): 13-16.
- HÁVA, J. & ZAHRADNÍK, P. 2020a: Three new species of Ptininae (Coleoptera: Bostrichoidea: Ptinidae) from Eocene Baltic amber. - *Studies and Reports, Taxonomical Series* 16(1): 85-91.
- HÁVA, J. & ZAHRADNÍK, P. 2020b: Contribution to the Ptinidae (Coleoptera) from Eocene Baltic amber, with descriptions of two new species. - *Folia Heyrovskyana, Series A* 28(1): 15-19.
- HÁVA, J. & ZAHRADNÍK, P. 2020c: Two new species of Ptinidae (Coleoptera) from Eocene Baltic amber. - *Natura Somogyiensis* 35: 5-10. <https://doi.org/10.24394/NatSom.2020.35.5>
- TOSKINA, I. N. 2012: Some new palaeartic species of the genus *Stagetus* Wollaston, 1861 (Coleoptera: Ptinidae: Dorcatominae). - *Bulletin of the Moscow Society of Naturalists.*, Ser. Biol. 117(2): 16-28.
- TOSKINA, I. N. 2015: Key to Palaeartic species of the genus *Stagetus* (Coleoptera, Ptinidae, Dorcatominae). - *Vestnik Zoologii* 49(1): 13-34. <https://doi.org/10.1515/vzoo-2015-0002>
- VIÑOLAS, A. 2012: *Stagetus cobosi* n. sp. de Dorcatominae d'Almeria, península Ibèrica (Coleoptera: Ptinidae). - *Orsis* 26: 187-192.
- VIÑOLAS, A. 2013: Els Dorcatominae de la península Ibèrica i illes Balears. 3a nota. El gènere *Stagetus* Wollaston, 1861, amb la descripció de *S. confusus* n. sp. (Coleoptera: Ptinidae). - *Orsis* 27: 95-121.

- VIÑOLAS, A. 2016a: Un nuevo *Stagetus* Wollaston, 1861 de Castellón, Península Ibérica (Coleoptera: Ptinidae: Dorcatominae). - *Arquivos Entomológicos* 15: 57-64.
- VIÑOLAS, A. 2016b: Una nueva especie del género *Stagetus* Wollaston, 1861 de Teruel, Península Ibérica (Coleoptera: Ptinidae: Dorcatominae). - *Arquivos Entomológicos* 16: 151-158.
- VIÑOLAS, A. 2017: Nueva aportación al conocimiento de los Ptinidae (Coleoptera) de la Península Ibérica e Islas Canarias, con la descripción de un nuevo *Stagetus* Wollaston, 1861 de Navarra. - *Arquivos Entomológicos* 18: 137-148.
- VIÑOLAS, A. & MASÓ, G. 2006: Revisión del género *Stagetus* Wollaston, 1861, en el África continental. - *Butlletí de la Institució d'Història Natural* 74: 37-80.
- ZAHRADNÍK, P. 2007: Genus *Stagetus* pp. 346-347. In: LÖBL, I & SMETANA, A. (eds.): *Catalogue of Palaearctic Coleoptera. Volume 4: Elateroidea - Derodontoidea - Bostrichoidea - Lymexyloidea - Cleroidea - Cucujoidea*. Stenstrup: Apollo Books, 935 pp.
- ZAHRADNÍK, P. 2012: Ptinidae of China I. - Subfamily Dorcatominae (Coleoptera: Bostrichoidea: Ptinidae). - *Studies and Reports, Taxonomical Series* 8(1-2): 325-334.
- ZAHRADNÍK, P. 2015: A review of Ptinidae (Coleoptera: Bostrichoidea) of Socotra Island. - *Studies and Reports, Taxonomical Series* 11(1): 197-220.
- ZAHRADNÍK, P. & HÁVA, J. 2014: New Ptinidae (Coleoptera: Bostrichoidea) from Baltic amber with a list of known fossil species. - *Studies and Reports, Taxonomical Series* 10(2): 629-646.
- ZAHRADNÍK, P. & HÁVA, J. 2017: Three new species of *Trichodesma* LeConte, 1861 from Baltic Amber (Coleoptera: Ptinidae: Anobiinae). - *Folia Heyrovskyana, Series A* 25(1): 89-92.
- ZAHRADNÍK, P. & HÁVA, J. 2019: *Gastrallus michalskii* sp. nov., a new species of tribe Gastrallini (Coleoptera: Ptinidae) from Eocene Baltic amber. - *Acta Biologica Universitatis Daugavpiliensis* 19(2): 231-233.