



# Article

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## New genus and three new species of the subfamily Xyleninae (Lepidoptera, Noctuidae)

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### Abstract

A new Xyleninae (Lepidoptera, Noctuidae) genus *Parvispinia* **gen. n.** (Type-species *Ammoconia parvispina* Tschetverikov, 1904) and three new species *Parvispinia barkama* **sp. n.**, *P. geminus* **sp. n.** and *P. parilis* **sp. n.** from China are described. *Atrachea parvispina* (Tschetverikov, 1904), *A. cortex* (Alphéraky, 1887) and *A. caelestina* Gyulai & Ronkay, 2001 are transferred from the genus *Atrachea* Warren, 1911 (Xyleninae, Apameini) to *Parvispinia* (Xyleninae, Xylenini); three new combinations *Parvispinia parvispina* (Tschetverikov, 1904) **comb. n.**, *P. cortex* (Alphéraky, 1887), **comb. n.** and *P. caelestina* (Gyulai & Ronkay, 2001), **comb. n.** are introduced. The lectotypes for *Parvispinia parvispina* and *P. cortex* are designated. Generic checklists for *Parvispinia* and *Atrachea* are presented.

**Key words.** Lepidoptera, Noctuidae, *Atrachea*, *Parvispinia*, Xyleninae, new genus, new species, lectotype, new combination, Central Asia, China

### Introduction

Taxonomic investigation of the Noctuidae of Siberia and East Asia has revealed several heterogeneous genera in the subfamily Xyleninae, in which the members of the genera do not correspond morphologically to the type species of genera. One such problem is the systematic position of “*Atrachea*” *parvispina* group (Tschetverikov, 1904) in the genus *Atrachea* (Xyleninae, Apameini). Although externally *A. parvispina* (Tschetverikov, 1904) and its allied *A. cortex* (Alphéraky, 1887) resemble species of *Atrachea* Warren, 1911, in structure of male and female genitalia they are completely different from *A. nitens* (Butler, 1878), the type-species of *Atrachea*. According to our comparative study of the group, these species apparently belong to a distinct genus with placement in the tribe Xylenini rather than in Apameini. By examination of the types of described species and recently collected materials from Western China we found four species congeneric with *A. parvispina* and *A. cortex*, three of which were undescribed. The new genus *Parvispinia* **gen. n.** for “*Atrachea*” *parvispina* group and three new species are described herein in the tribe Xyleninae; three species (*A. parvispina*, *A. cortex* and *A. caelestina* Gyulai & Ronkay, 2001), are transferred from *Atrachea* to the new genus. The lectotypes for *Parvispinia parvispina* and *P. cortex* are designated.

### Material and Methods

This article is based on the collections of ZISP, Peter Gyulai, Gottfried Behounek, and material recently collected by Alessandro Floriani in Western China. Photographic methods included a Nikon Coolpix 4500 and a Canon EOS 5D mk. II camera, with genitalic slides photographed using a microscope with an LM-scope adapter, and final processing with Adobe Photoshop CS3. The following abbreviations are used: BJ—J. Babics; ZISP—Zoological Museum, St. Petersburg, Russia; GB/ZSM—G. Behounek / Zoologische Staatssammlung, München; NRCV—Nature Research Centre (Vilnius, Lithuania); PG—P. Gyulai; AF—Alessandro Floriani; AM—Alexei Matov.