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## A review of the genus *Potemnemus* Thomson, 1864 (Coleoptera: Cerambycidae) with description of a new species from Papua New Guinea

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### Abstract

All preserved type specimens and type series of the genus *Potemnemus* Thomson, 1864 from museum collections have been examined. The presented taxonomic study is based on examination of morphological characters as well as studies of the genitalia. The genitalia are described for the first time. The type of *P. scabrosus* Olivier, 1790 is lost, and the original drawing has been designated as a **lectotype**. The monospecific genus *Parapotemnemus* Breuning, 1971 **nov. syn.** is considered to be a junior synonym of *Potemnemus* Thomson, 1864 based on similarities in both external and male genitalia characters. *Potemnemus wheatcrofti* (Breuning, 1971) **nov. comb.** thus becomes a new combination. The **holotype** of *P. wheatcrofti* **nov. comb.** is lost, and a **paratype** ♂ has been designated as a **neotype**. *Potemnemus nylanderi* **nov. sp.** is described from the eastern parts of Papua New Guinea. The following new synonyms within the genus *Potemnemus* have been introduced: *P. hispidus* Gressitt, 1952 **nov. syn.** is a junior synonym of *P. sepicanus* Kriesche, 1923, *P. detzneri* Kriesche, 1923 **nov. syn.** is a junior synonym of *P. trimaculatus* Lea, 1918, and *P. lorlai* Breuning, 1956 **nov. syn.** and *P. triturberculatus* Breuning, 1942 **nov. syn.** are both junior synonyms of *P. scabrosus* (Olivier, 1790). As a result of the present study the following species have been resurrected to species level: *Potemnemus trimaculatus* Lea, 1918 **sp. res.**, *P. wolffi* Berchmans, 1925 **sp. res.**, and *P. thomsoni* Lansberge, 1880 **sp. res.** The genus *Periaptodes* Pascoe, 1866 **gen. res.** has been resurrected as a valid genus based on differences in both external and male genitalia characters, and re-descriptions of the genera *Potemnemus* and *Periaptodes* are presented. Consequently, the following species have been transferred back to *Periaptodes* from *Potemnemus*: *Periaptodes frater* (Van de Poll, 1887), *P. lictor* Pascoe, 1866, *P. olivieri* (Thomson, 1864), *P. potemnemoides* Kriesche, 1936, *P. testator* Pascoe, 1866, *P. paratestator* Breuning, 1980. *P. testator* has priority as the type species of the genus *Periaptodes* (designation by Breuning, 1944). McKeown's designation in 1947 of *Periaptodes lictor* Pascoe, 1866 as type species of the genus is therefore invalid. A key to the species of *Potemnemus* is provided.

**Key words:** taxonomy, Cerambycidae, Lamiinae, Agniini, *Potemnemus*, *Periaptodes*, *Parapotemnemus*, *Potemnemus nylanderi* **nov. sp.**, Papua New Guinea

### Introduction

Earlier work on species of the genus *Potemnemus* Thomson, 1864 written by Breuning (1944) and De Jong (1947) were, unfortunately, not entirely accurate since they did not examine all available type specimens. Several of the old descriptions are very brief and often lack drawings. Most *Potemnemus* species are also rare in museum collections. To facilitate a new basis for comparison and identification, we present re-descriptions of some of the species. Photos of all species, including available types, are presented. The full nomenclatorial history of *Potemnemus* is presented for each species. As a result of the present study, we consider the genus *Potemnemus* Thomson, 1864 to consist of 13 valid species. We also examine the genus *Periaptodes* Pascoe, 1866, since Słipiński & Escalona (2013) considered this genus to be synonymous with *Potemnemus*. The original descriptions of the genera *Potemnemus* by Thomson (1864) and *Periaptodes* by Pascoe (1866) were too brief and insufficient in order to define the taxonomic border between the genera. Therefore, we present re-descriptions of these two