



Four new species of *Penottus* Distant (Hemiptera: Tingidae) from China

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Abstract

Six species of *Penottus* Distant, 1903 (Heteroptera: Tingidae) from China are treated in this paper, in which *Penottus tibetanus* Drake and Maa, 1954 (described from Tibet) is newly recorded from Hubei Province, and four species are described as new: *Penottus bisinuatus* sp. n., *Penottus cassideus* sp. n., *Penottus fujianensis* sp. n., and *Penottus tuberculiformis* sp. n. A key to the species occurring in China is provided.

Key words: Hemiptera, Heteroptera, Tingidae, lace bug, *Penottus*, new species, China

Introduction

The genus *Penottus* (Hemiptera: Heteroptera: Tingidae) was established by Distant (1903), with *Penottus jalorensis* Distant, 1903 (now a junior synonym of *Monanthia monticollis* Walker, 1873) as the type species by monotypy. Prior to this study, *Penottus* contained ten species, distributed in Southeast Asia and New Guinea (Drake and Ruhoff 1965; Jing 1981; Péricart 1986, 1992; Guilbert 2006, 2007). Three species have been recorded from China, namely *P. verdicus* Drake and Maa, 1953 (Taiwan), *P. tibetanus* Drake and Maa, 1954 (Tibet), and *P. monticollis* (Walker, 1873) (Hainan) (Jing 1981).

In this paper, we describe four new species of *Penottus* from China: *P. bisinuatus* sp. n., *P. cassideus* sp. n., *P. fujianensis* sp. n. and *P. tuberculiformis* sp. n. New records of two other species occurring in China, *P. tibetanus* and *P. monticollis*, are presented also. Species of *Penottus* occurring in China are illustrated and keyed.

Type specimens of *P. bisinuatus* sp. n. are deposited in the Institute of Zoology, Chinese Academy of Sciences, Beijing, China; those of the three other new species are deposited in the Institute of Entomology, College of Life Sciences, Nankai University, Tianjin, China. Measurements are in millimeters.

Taxonomy

Genus *Penottus* Distant, 1903

Penottus Distant, 1903: 254. Type species by monotypy: *Penottus jalorensis* Distant, 1903 (= *Monanthia monticollis* Walker, 1873).

Penottus: Drake and Ruhoff, 1960: 75; Drake and Ruhoff, 1961: 178; Drake and Ruhoff, 1965: 321; Jing, 1981: 334; Péricart, 1986: 654, 1992: 67; Péricart and Golub, 1996: 52; Guilbert, 2007: 9.

Cetiocysta Drake and Poor, 1939: 205, (syn. Drake and Ruhoff, 1960: 44, 75). Type species by original designation: *Diplocysta nimia* Drake, 1927.

Redescription. Head elongate, with five spines, two frontal ones short, stout, erect, tuberculiform. Bucculae anteriorly narrow and uniseriate, broadened posteriorly, there bi-, tri-, or quadriseriate. Antennae long, slender; first segment short, second smallest, third longest, pubescent.