

# A New Species of the Ant Genus *Aenictus* Shuckard (Hymenoptera: Formicidae) from Henan, China

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**Abstract:** A new species of the ant genus *Aenictus* Shuckard, *A. henanensis*, sp. nov., was collected from Yichuan County, Henan Province. The new species is close to *A. lifuiiae* Terayama, but in profile view dorsum of propodeum straight, dorsum of petiolar node roundly convex, dorsum of propodeum entirely microreticulate. This new species is also close to *A. ceylonicus* (Mayr), but mandible with a large apical tooth, a small preapical tooth and followed by 5 indistinct minute denticles, subpetiolar process low and rounded, anterior half of pronotum microreticulate.

**Key words:** Hymenoptera; Formicidae; Aenictinae; *Aenictus*; new species; China

**CLC number:** Q969.554.2

**Document code:** A

**Article ID:** 1000-7482(2005)02-0157-04

A new species of the ant genus *Aenictus* Shuckard was collected from Yichuan County, Henan Province. The type specimens were deposited in the Insect Collection, Department of Biology, Shangqiu Normal College, Henan Province. Standard measurements and indices are as defined in Wilson (1964) and Terayama (1984): TL-Total length, HL-Head length, HW-Head width, CI-Cephalic index, SL-Scape length, SI-Scape index, PW-Pronotal width, AL-Alitrunk length, PL-Petiole length, PH-Petiole height, DPW-Dorsal petiole width, PPL-Postpetiole length, PPH-Postpetiole height, PPW-Dorsal postpetiole width. All measurements are expressed in mm.

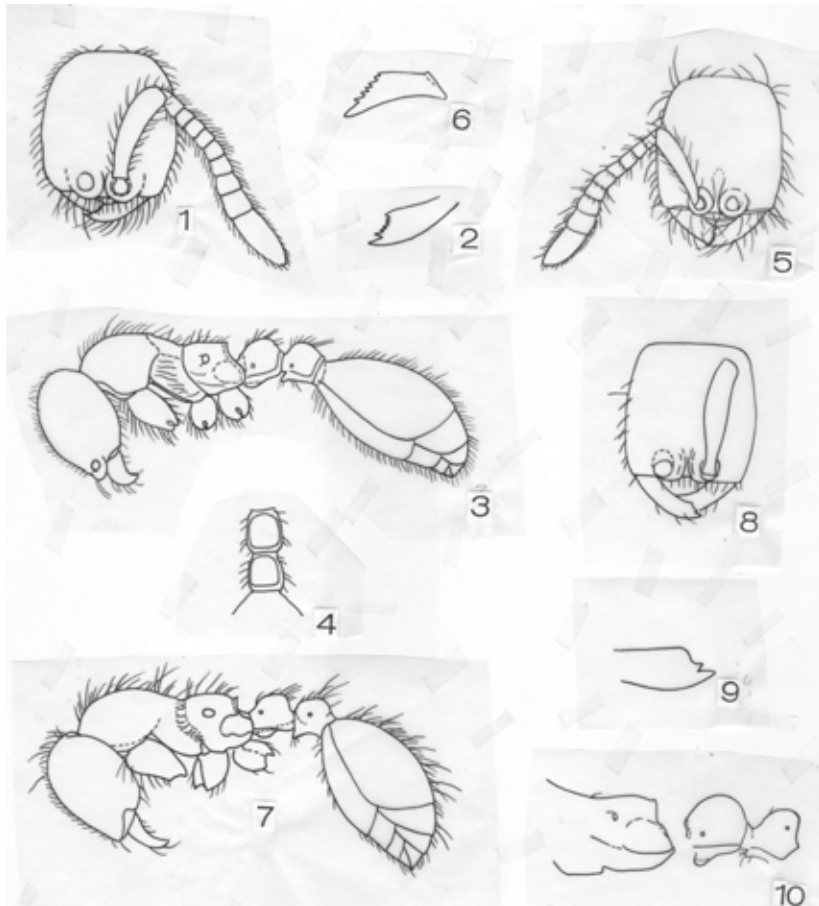
*Aenictus henanensis*, sp. nov. (Figs. 1~4)

Holotype worker. TL 2.7, HL 0.63, HW 0.58, CI 92, SL 0.45, SI 78, PW 0.36, AL 0.88, PL 0.23, PH 0.23, DPW 0.16, PPL 0.20, PPH 0.21, PPW 0.18. Head nearly square, slightly longer than broad. In full face view, occipital margin straight, occipital corners rounded, lateral sides weakly convex, anterior 1/3 weakly constricted. Mandible subtriangular, masticatory margin with a large apical tooth, a small preapical tooth, and followed by 5 indistinct minute denticles. A narrow gap present between inner margin of mandibles and anterior margin of clypeus, maximum width of the gap about 1/3 of the maximum width of the antennal scape.

**Received date:** 2004-04-20

**Foundation item:** This study was supported by Basic Research Plan for the Natural Science Foundation of Education Office of Henan Province (20011800005)

Anterior margin of clypeus emarginate in the middle. Frontal carinae thin and erect, extending forward and surpassed anterior margin of clypeus. Parafrontal carinae short, extending backward to posterior margin level of antennal sockets. Antenna with 10 segments, apex of scape only reached to 4/5 of the distance from antennal socket to occipital corner. In profile view, pronotum weakly convex, promesonotal suture absent. Dorsum of mesonotum straight, slope down backward. Metanotal groove weakly impressed. Dorsum of propodeum straight, weakly slope down backward, posterodorsal corner protruding and dentate, less than  $90^\circ$ , declivity concave and about 1/2 length of the dorsum. Apex of propodeal lobe rounded. Dorsum of petiolar node roundly convex, slightly inclined backward, anterior face sloped, posterior face steeply sloped. Subpetiolar process low and rounded, anteroventrally directed. Dorsum of postpetiolar node roundly convex, weakly inclined forward, anterior face steeply sloped, posterior face sloped, ventral face straight, anteroventral corner protruding and tooth-like.



Figs. 1~10 Workers of the genus *Aenictus*

1~4. *A. henanensis*, sp. nov.; 5~7. *A. lifuiae* Terayama; 8~10. *A. ceylonicus*(Mayr)

1, 5, 8. head(frontal view); 2, 6, 9. mandible(dorsal view); 3, 7. body(profile view); 4. petiole and postpetiole(dorsal view); 10. propodeum, petiole and postpetiole(profile view); 5~7. after Terayama(1984); 8~10. after Wilson(1964)

Mandibles finely longitudinally striate. Head smooth and shining. Alitrunk, petiole and postpetiole microreticulate and opaque. Posterior half of pronotum smooth and shining. Lateral sides of mesothorax and metathorax sparsely longitudinally rugose. Tops of petiolar node and postpetiolar node smooth and shining. Gaster smooth and shining. Dorsal faces of head and body with abundant subdecumbent hairs. Scapes, femurs and tibiae with abundant decumbent hairs. Anterior margin of clypeus with a row of short setae. Head, legs and gaster brownish yellow. Mandibles, antennae, alitrunk, petiole and postpetiole yellowish brown. Masticatory margins of mandibles black.

Paratype workers. TL 2.6~2.7, HL 0.53~0.62, HW 0.48~0.57, CI 87~100, SL 0.44, SI 75~83, PW 0.29~0.36, AL 0.73~0.93, PL 0.23~0.25, PH 0.20~0.24, DPW 0.13~0.17, PPL 0.17~0.25, PPH 0.17~0.21, PPW 0.13~0.16 (5 individuals measured). As holotype.

Holotype: worker, 254 m, Zhengcun Village, Gaoshan Town, Yichuan County, Henan Province, 22- -2001, collected on the ground in popular forest by LI Shu-ping. Paratypes: 5 workers, same data as holotype.

This new species is close to *A. lifuiae* Terayama (Figs. 5~7), but in profile view dorsum of propodeum straight, dorsum of petiolar node roundly convex, dorsum of propodeum entirely microreticulate. The new species is also close to *A. ceylonicus* (Mayr) (Figs. 8~10), but mandible with a large apical tooth, a small preapical tooth and followed by 5 indistinct minute denticles, subpetiolar process low and rounded, anterior half of pronotum microreticulate.

**Acknowledgements:** We thank Professor XU Zheng-hui (Southwest Forestry College) for reading through the manuscript and his kind advice. We also thank Professor ZHOU Shan-yi (Guangxi Normal University) for his guidance in identification.

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# 中国河南省盲蚁属一新种记述

## (膜翅目: 蚁科)

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记述河南省伊川县盲蚁属 *Aenictus* Shuckard 1 新种——河南盲蚁 *A. henanensis*, sp. nov.。新种与李氏盲蚁 *A. lifuiae* Terayama 近似, 但侧面观并胸腹节背面平直, 腹柄结背面圆形隆起, 并胸腹节背面具微细网状刻纹。新种还与锡兰盲蚁 *A. ceylonicus* (Mayr) 近似, 但上颚具 1 个大形端齿, 1 个小形亚端齿和 5 个不明显的微小细齿; 腹柄下突短且端部圆钝, 前胸背板前半部具微细网状刻纹。

正模: 工蚁, 河南省伊川县高山乡郑村, 254 m, 2001- -22, 李淑萍采于杨树林地面; 副模: 5 工蚁, 同正模。

关键词: 膜翅目; 蚁科; 盲蚁亚科; 盲蚁属; 新种; 中国

### [新书评介]

#### 《世界名蝶鉴赏图谱》

由周尧、袁锋、陈丽珍、张雅林、孙桂华、袁向群共同编写的《世界名蝶鉴赏图谱》已于 2004 年 8 月由河南科学技术出版社出版。该书包括全世界所有的名蝶, 涉及蝴蝶 17 科、346 属、969 种, 是目前国内最全面的世界名蝶鉴赏图谱。该书包括世界各国的国蝶, 国际组织规定的保护或禁止贸易的蝴蝶种类, 也包括中国或其它国家明令保护的种类, 也有许多体型较大、体态多样、色彩斑斓、美丽多姿的国际蝴蝶种类, 还有被科学家分类、鉴定认为极为珍稀或富有学术研究价值的蝴蝶种类以及被文学艺术家经常吟颂、描绘的蝴蝶种类。书后附有世界和中国有关濒危物种、野生动物保护名录的蝴蝶部分, 世界部分国家的国蝶名录; 所有名蝶的中文名及拉丁文学名索引。

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杨宗武

(西北农林科技大学昆虫博物馆)