

A new species of the genus *Martyringa* (Lepidoptera: Oecophoridae) from China

Новый вид рода *Martyringa* (Lepidoptera: Oecophoridae) из Китая

A.L. LVOVSKY

А.Л. ЛЬВОВСКИЙ

A.L. Lvovsky, Zoological Institute, Russian Academy of Sciences, 1 Universitetskaya Emb., St. Petersburg, 199034, Russia.

Martyringa hoenei, **sp. nov.** from North Yunnan is described. The new species is closely related to *M. latipennis* (Walsingham, 1882) differing by male genital structures.

Описан новый вид *Martyringa hoenei*, **sp. nov.** из Северного Юньнана, наиболее близкий к *M. latipennis* (Walsingham, 1882), от которого отличается строением гениталий самца.

Key words: China, moths, Lepidoptera, Oecophoridae, *Martyringa*, new species

Ключевые слова: Китай, чешуекрылые, Lepidoptera, Oecophoridae, *Martyringa*, новый вид

The genus *Martyringa* Busck, 1902 (= *Anchonoma* Meyrick, 1910; = *Santuzza* Heinrich, 1920) until now included three species, distributed in Eastern and South-Eastern Asia and North America. The fourth, a new species is described from Southern China, Yunnan Province.

The representatives of the genus inhabit houses, storehouses or adjacent to them. The adult moths are on the wing from spring to autumn. They fly at dusk and at night. The larvae hibernate. They are very polyphagous on plant residues, seeds, and decaying wood (Hodges, 1974, 1960; Saito, 1987; Lvovsky, 2006; Wang, 2006). One species, *M. xeraula* (Meyrick, 1910) (= *Santuzza kuwanii* Heinrich, 1920) is known as a pest of stored grain (Heinrich, 1920; Hinton, 1943; Varshalovich, 1978; Lvovsky, 1994).

The adult moths are usually very similar in the coloration and pattern of the wings, but have good differences in the genital structures (Heinrich, 1920; Hodges, 1974; Lvovsky, 1979, 1999). Good synapomorphies of the genus are the small curve of lower margin of the cell in the forewing and a group of long androconial scales in

the pocket between VII and VIII sternites of male abdomen. It is interesting that new species is more closely related to the North American species *M. latipennis* than to the sympatric Chinese species.

Thus, three species of *Martyringa* are known for China: *M. hoenei*, *M. ussuriella* and *M. xeraula*.

The newly described species was collected by the German entomologist H. Höne in 1934–1935. The holotype and 4 paratypes (all males) are deposited at the Alexander Koenig Research Museum in Bonn (KRMB). Two paratype males are deposited at the Zoological Institute, Russian Academy of Sciences in St. Petersburg (ZIN).

Order LEPIDOPTERA

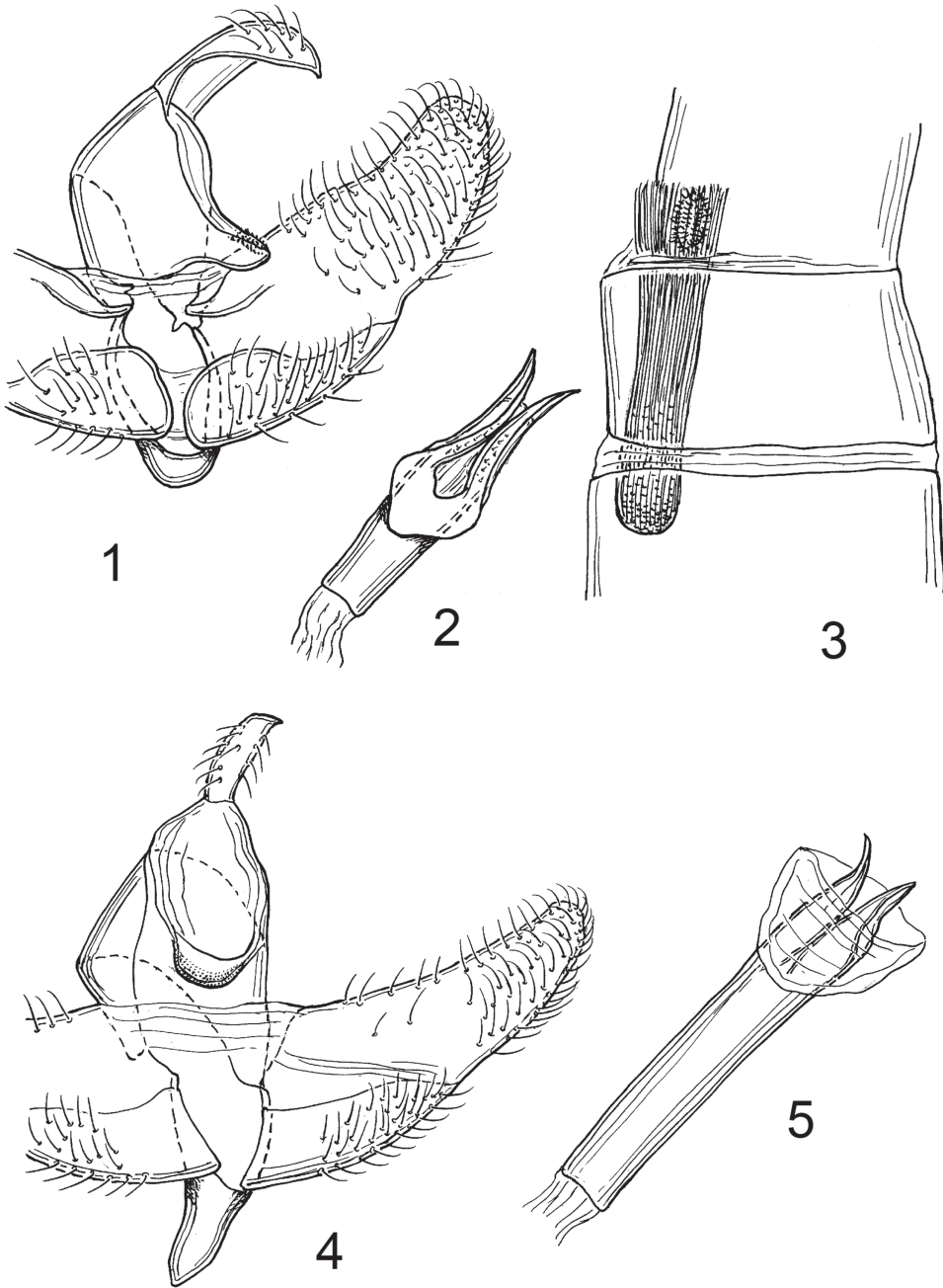
Family OECOPHORIDAE

Martyringa Busck, 1902

Martyringa hoenei sp. n.

(Figs 1–3)

Holotype. Male; **China**, North Yunnan Province, Li-kiang; 14 July 1934; leg. H. Höne; gen. prep. No. 28 (det. Lvovsky); KRMB.



Figs 1–5. *Martyringa*, male. 1–3, *Martyringa hoenei* sp. nov.; 4, 5, *M. latipennis*. Male genitalia without aedeagus and juxta (1, 4); aedeagus and juxta (2, 5); abdomen with androconial scales (3).

Paratypes. 6 males; the same locality as above; 3 males; 8 Aug. – 10 Sept. 1934; 2 males, ZIN; 1 males KRMB; 3 males, 1–4 August 1935; KRMB.

Description. Forewing length 8.5–10.5 mm, wingspan 19–24 mm. Head and thorax light brown. Labial palpi recurved; second segment the same length as apical

one. Second segment with a mixture of white and brown scales; apical one dark brown with white apex. Forewing brown with small dark brown discal spot, another small dark spot in the middle of the cell and small dark stroke under it. Hindwing light grey.

Male genitalia (Figs 1, 2). Uncus curved. Gnathos short, triangular in apical part. Valva broad with rounded apex and with short process at base near costa. Saccus bow-shaped and short. Juxta with two lateral processes that are acute apically and fused with aedeagus. Aedeagus straight, without cornuti.

Diagnosis. The new species is closely related to the North American species *M. latipennis*, differing by the short saccus and short aedeagus. In the new species the saccus is bow-shaped and the aedeagus is shorter than the valva, whereas in *M. latipennis* the saccus is longer and conic and aedeagus is not shorter than the valva (Figs 4, 5). *Martyringa hoenei* differs from the Asian species *M. xeraula* by the absence of small process on the distal end of saccus.

Etymology. The species is named after Hermann Höne, the collector of the holotype and paratypes, a German Consul in Shanghai and an entomologist.

ACKNOWLEDGEMENTS

The author is thankful to Dieter Stüning (Museum of Alexander Koenig in Bonn) for the opportunity to study the specimens of the new species. The study was financially supported by the Biodiversity Programme of the Presidium of the Russian Academy of Sciences and a grant of the Russian Foundation for Basic Research No. 08-04-92232-GFEN.

REFERENCES

- Heinrich, C.** 1920. A new genus and species of oecophorid moths from Japan. *Proceedings of the Entomological Society of Washington*, **22**(3): 43–50.
- Hinton, H.E.** 1943. The larvae of the Lepidoptera associated with stored products. *Bulletin of Entomological Research*, **34**(3): 163–212.
- Hodges, R.W.** 1960. Description of a new species of *Martyringa* (Lepidoptera: Oecophoridae) with a note on its biology. *Bulletin of the Brooklyn Entomological Society*, **55**(4): 81–83.
- Hodges, R.W.** 1974. Gelechioidea, Oecophoridae. *The moths of America north of Mexico*, **6**(2). London. 142 p., 7 pl.
- Lvovsky, A.L.** 1979. New species and subspecies of oecophorid moth of the genus *Martyringa* Busck (Lepidoptera, Oecophoridae). *Trudy Vsesoyuznogo entomologicheskogo obschestva*, **61**: 111–114. (In Russian).
- Lvovsky, A.L.** 1994. Oecophoridae — broad-winged moths. In: Kuznetsov, V.I. (Ed.) *Nasekomye i kleshchi — vrediteli sel'skookhozyaystvennykh kultur* [Insects and mites — pests of agricultural plants], **3**(1): 292–300. (In Russian).
- Lvovsky, A.L.** 1999. Oecophoridae — broad-winged moths or oecophorids. In: Lehr, P.A. (Ed.) *Opredelitel' nasekomykh Dalnego Vostoka Rossii* [Keys to the insects of the Russian Far East], **5**(2): 43–57. (In Russian).
- Lvovsky, A.L.** 2006. Check-list of the broad-winged and flat moths (Lepidoptera: Oecophoridae, Chimabachidae, Amphibatidae, Depressariidae) of the fauna of Russia and adjacent countries. *Trudy Zoologicheskogo Instituta Rossiyskoy Akademii Nauk*, **307**: 1–118. (In Russian).
- Saito, T.** 1987. Record of *Martyringa xeraula* (Meyrick) (Lepidoptera: Oecophoridae), a pest of stored grain, from Thailand, with a synonymic note. *Microlepidoptera of Thailand*, **1**: 125–127.
- Wang, S.X.** 2006. *Oecophoridae of China (Insecta: Lepidoptera)*. Science Press, Beijing. 255 p., 15 pl.
- Warshalovich, A.A.** 1978. Larvae observing at expert examination of quarantine materials. In: **Smetnik, A.I.** (Ed.) *Opasnie karantinnie vrediteli, bolezni i sornie rastenia* [Dangerous quarantine pests, diseases and weeds]: 3–127. Moscow. (In Russian).

Received 5 April 2010 / Accepted 3 June 2010