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A new species of the genus *Pammene* (Lepidoptera, Tortricidae) injurious to
fruits of hawthorn in China

Youqiao LIU

Institute of Zoology, Academia Sinica, Beijing 100080, China

and

Furumi KOMAI

Environmental Planning Department, Osaka University of Arts
Kanan-cho, Osaka, 585 Japan

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A new species of the genus *Pammene* (Lepidoptera, Tortricidae) injurious to fruits of hawthorn in China

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A serious olethreutine pest on fruits of hawthorn (*Crataegus cuneata* Sieb. et Zucc., Rosaceae), which is widely planted for medical or edible purpose in China, has been recently found in the eastern part of China (Chen, 1992). As a result of examination, we have concluded that this insect represents a new species belonging to the genus *Pammene*. In the following lines we will describe the species and give a brief note on the biology.

We are most grateful to the following individuals for material and information: Bin Liu and Wen-shan Zhao (Shenyang Agricultural University, Liaoning); Xiu-hui Chen (Agricultural Bureau of Linyi County, Shangdong); Kui-jie Zhao (Agricultural Science Research Institute of Huaiyin County, Jiangsu).

Pammene crataegicola Liu et Komai, n. sp.

Adult (Fig. 1). Wing expanse 12 mm. Head, labial palpus, and thorax fuscous, sprinkled with whitish-tipped scales. Antenna fuscous, with whitish annulations. Abdomen fuscous, venter whitish ochreous. Forewing fuscous; costa marked with five pairs of whitish strigulae beyond middle, oblique plumbeous lines arising from the strigulae; subtriangular whitish patch at middle of dorsum, reaching half across wing, often divided into two parts by a fuscous line; distinct ocelloid patch not formed; cilia shiny gray, with a blackish basal line. Hindwing fuscous, cilia shiny gray, with a fuscous basal line.



Fig. 1. Adult of *Pammene crataegicola* n. sp.

Male genitalia (Fig. 2). Valva elongate, with an oval basal opening; sacculus smooth; cucullus ovate. Tegumen clothed with hair-scales on top. Aedeagus abruptly narrowed at apical 1/4; vesica armed with 4 spiniform cornuti.

Scent organ of male on abdominal tergite VI represented by a transverse patch of scales concealed in membranous fold.

Female genitalia (Fig. 3). Lamella postvaginalis indicated by a linguiform plate, sparsely haired posteriorly. Seventh sternite widely emarginate in posterior edge, with a pair of deep, round hollows (this area almost bared) laterally. Ductus bursae very short, with a sclerotized ring anteriorly; corpus bursae with two horn-shaped signa.

Material examined. Holotype, China, Jiangsu Province, Sugian County, ♀, IV. 1988 (Ji-bo Zhang). Paratypes: China, Jiangsu Province, Huaiyin County, 6♂6♀, 18. IV. 1987 (Kuijie Zhao); Sugian County, 3♂3♀, V. 1988 (Ji-bo Zhang). Shangdong Province, Lingi County, 5♂2♀, IV. 1990 (Xiu-hui Chen). Liaoning Province, Shenyang City, 2♂1♀, 10. V. 1984, 2. VI. 1987 (Wen-shan Zhao). All reared from *Crataegus cuneata* Sieb. et Zucc.

Types are deposited in the Institute of Zoology, Academia Sinica, Beijing.

Distribution. China (Jilin, Liaoning, Hebei, Henan, Shangdong, and Jiangsu Provinces).

Host plant. Rosaceae: *Crataegus cuneata* Sieb. et Zucc. (fruit).

Biology. It occurs one generation a year. Mature larvae pass through summer and winter in a thin cocoon under tree-barks. Pupation takes place in March and April with daily average temperature 3-5°C. Moths emerge from the end of April to the middle of May. After hatching, the larvae crawl along the petiole, tender twig to bud and penetrate into ovary from petal or sepal. Most of the larvae can damage two fruits. After 20 days, the larvae become mature.

Remarks. This species is allied to *Pammene agnotana* Rebel, which is distributed in Europe and also associated with *Crataegus*, though the larvae of the latter live under the bark of *Crataegus oxyacantha* (Danilevsky & Kuznetzov, 1968: 391). *Pammene*