

## Two New Species of Chrysomelidae (Coleoptera) from Korea

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### 한국산 잎벌레과의 2新種 記載

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#### 적 요

한국산 잎벌레류를 연구하는 가운데 2신종, *Basilepta punctifrons*, n. sp. (점박이이마애곱추잎벌레)와 *Pentamesa sophiae*, n. sp. (알락벼룩잎벌레)를 발견하여 보고한다. 따라서 지금까지 기록된 한국산 잎벌레류는 모든 113속 337종이 된다.

Key words: New species, Chrysomelidae, Coleoptera, Korea.

#### DESCRIPTION

##### Subfamily Eumolpinae

##### 1. *Basilepta punctifrons*, n. sp. 점박이이마애곱추잎벌레 (Figs. 1-2)

Male (Holotype). General color yellowish brown; head yellowish brown to reddish brown; antennae yellow except 5-11 apical segments pitchy black and basal ones testaceous; scutellum and elytral suture reddish brown; legs yellowish brown. Body oblong oval. Head surface strongly and rather closely punctate; vertex with a short shallow longitudinal furrow at middle; clypeus not delimited from behind, its anterior margin broadly emarginate in the middle. Antenna filiform, nearly 3/4 as long as body length; 1st segment slightly robust, somewhat club-shaped; 2nd nearly 3/5 as long as 1st; 3rd much slender than 2nd, and 1.3 times as long as 2nd; 4th slightly longer than 3rd, but similar to in shape; 5-10 much robuster than 4th, but subequal to in length; 11th 1.4 times as long as 10th and its apex pointed. Pronotum transverse, about 1.5 times as wide as long; lateral margin evenly rounded without angle at middle; dorsal surface strongly and moderately punctate, lateral portion with a shallow depres-

sion, anterior sulcus obsolete in the middle with a transverse row of distinct punctures; proepimeron densely and very finely punctate. Scutellum subtrigonate, with apex rounded; surface slightly concave, smooth, shining, sparsely impressed by minute punctures. Elytron subparallel-sided with apex rounded, about 3 times as long as broad; humerus strongly raised; subbasal area slightly convex and separated from behind by a shallow transverse depression; punctures regularly arranged in longitudinal rows, these punctures become finer apically; interstices impunctate. All femora spined beneath, the spines of anterior and posterior rather robust and triangular. Aedeagus as in Figs. 1-2. Body length 4.0 mm.

Female (Allotype). Similar to male. Length 4.3 mm.

**Material examined.** **Holotype:** male (Type No. 3, Nat. Sci. Mus.), Sinjido Is., Jeonnam Prov., S. Korea, 21 VII 1984, Y.J. Kwon. **Allotype:** female, same data as holotype. **Paratypes:** 5 males, 6 females, same data as holotype.

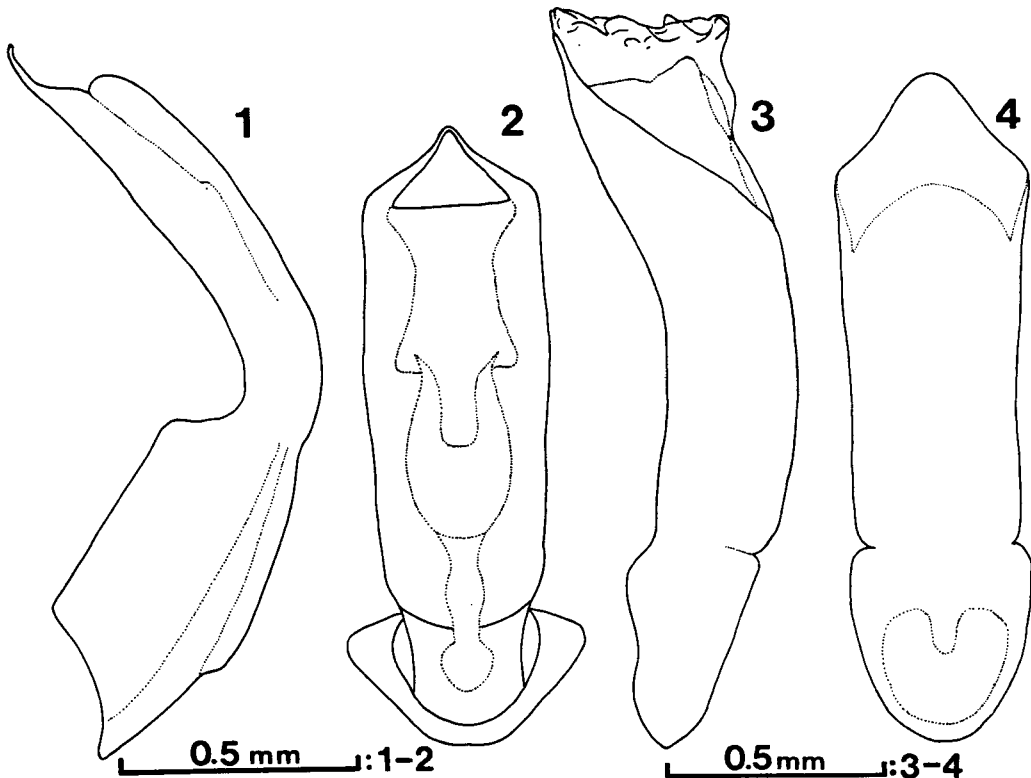
**Remarks:** The new species somewhat resembles *B. dentipes* Chen (China: Hangchow) because of posterior femora with a rather strongly dilated triangular tooth beneath, but differs from the latter by the shorter body (4.0-4.3 mm) and more closely and deeply punctated head.

#### Subfamily Alticinae

#### 2. *Pentamesa sophiae*, n. sp. 알락벼룩잎벌레

(Figs. 3-4)

Male (Holotype). General color pale reddish brown; head, antennae, legs, and ventral view pale



**Figs. 1-4.** Aedeagus of *Basilepta punctifrons*, n. sp. (1 lateral view; 2, dorsal view) and *Pentamesa sophiae*, n. sp. (3, lateral view; 4, ventral view).

reddish brown; pronotum reddish brown; elytron pale reddish brown, with 6 more or less rounded and large black spots, of which 1-4 large and 5-6 small, and 1-2 transversely placed basal area, 3-4 middle and 5-6 apical area. Body rounded oval and strongly convex. Head sparsely punctate; vertex impunctate except a large and a small punctures on anterior portion. Antennae nearly 1/2 as long as body length; 1st segment robust and club-shaped; 2nd nearly 1/3 as long as 1st, and about 1.5 times as long as wide; 3rd 1.3 as long as 2nd, and subequal to 4th in length and shape; 5th slightly longer than 4th; 6-10th subequal to in length and shape, and much robuster than 5th; 11th nearly 1.7 as long as 10th, and its apex pointed. Pronotum transverse, nearly 1.6 times as wide as long; dorsal surface strongly and evenly punctate, interspaces far smaller than distal punctures. Scutellum triangular, slightly convex and impunctate. Elytron about 2.3 times longer than broad; elytral punctures strong, and confusedly arranged; interspaces very finely punctate. All femora incrassate; anterior tibiae of male elbowed, with posterior 1/2 sulcate on outer side. Aedeagus as in Figs. 3-4. Body length 4.3 mm.

Female (Allotype). Similar to male. Length 4.8 mm.

**Material examined.** **Holotype:** male (Type No. 4, Nat. Sci. Mus.), Mt. Seorag, Gangweon Prov., S. Korea, 19 VI 1978, S. M. Lee. **Allotype:** female, Mt. Gariwang, Gangweon Prov., 1 VIII 1987, S. L. An. **Paratypes:** 2 females, Mt. Odae, Gangweon Prov., 5 VIII 1983, Y.J. Kwon.

**Remarks:** The genus *Pentamesa* Harold, 1876 which has been reported so far from only middle Asian regions such as SW China, Nepal, India, Sikkim, and N. Vietnam is first added to the fauna of Korea. This new species resembles *P. duodecimmaculata* Harold from India, but differs from the latter by the shorter body (4.3-4.8 mm), elytron with 6 black spots instead of 5, and more pointed apical portion of aedeagus. It also differs from *P. guttipennis* Chan & Wang in having elytron with 2, 2 and 2 black spots placed transversely instead of 1, 2, 2 and 1. All the type specimens examined herein are deposited in the collection of Division of Entomology, National Science Museum, Seoul.

## ABSTRACT

Two species of Korean Chrysomelidae, *Basilepta punctifrons*, n. sp. and *Pentamesa sophiae*, n. sp. were described as new to science and their aedeagus were illustrated. All 337 species in 41 genera of Chrysomelid-beetles are known to Korean fauna at present.

## ACKNOWLEDGEMENT

The author wishes to express his cordial thanks to Chief Researcher, Mr. S.M. Lee, Division of Entomology, National Science Museum and Dr. Y. J. Kwon, Department of Agricultural Biology, Kyungpook National University for giving opportunity to work with this valuable material. He also wants to express his gratitude to Dr. K. T. Park, Department of Plant Protection, Kangweon National University for his critical remarks. Also, he is indebted to Dr. S. Kimoto, Biological Laboratory, Kurume University and Mrs. K.S. Martin, Dept. of Library Services, British Museum (Nat. Hist.), for their kindness of offering the valuable literature.

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RECEIVED: 10 MARCH 1988

ACCEPTED: 3 MAY 1988