

## A Ground-Beetle, *Chlaenius hamifer* Chaudoir, New to Korea (Coleoptera: Carabidae)

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### ABSTRACT

*Chlaenius* is a large and diverse genus of ground beetle. This colorful beetle recognized from its pubescent elytra and pungent defensive secretions. Subgenus *Pachydinodes* belonging to the genus *Chlaenius* were reported eight species from Palaearctic, among them four species, *Chlaenius (Pachydinodes) abstersus* Bates, *C. (P.) pictus* Chaudoir, *C. (P.) tetragonoderus* Chaudoir, *C. (P.) virgulifer* Chaudoir were reported in Korea up to now. In here, *Chlaenius hamifer* Chaudoir are report firstly in Korea. Description and photo of adult and aedeagus are provided.

**Keywords:** taxonomy, new record, *Chlaenius hamifer*, Coleoptera, Korea

### INTRODUCTION

Eight species of the subgenus *Pachydinodes* were reported from Palaearctic region (Kirschenhofer, 2003), among them four species, *Chlaenius (Pachydinodes) abstersus* Bates, *C. (P.) pictus* Chaudoir, *C. (P.) tetragonoderus* Chaudoir, *C. (P.) virgulifer* Chaudoir were reported in Korea up to now (The Entomological Society of Korea and Korean Society of Applied Entomology, 1994; Park and Paik, 2001). Members of this subgenus are characterized and easily distinguished by external morphology, like shapes of elytral spot or bend at apex and colorful diversity at head and pronotum dorsally. These species have well developed hind wing and tarsal claws which can be able to live on the tree flying and catching and feeding the small worms etc. (Nakane, 1986).

### SYSTEMATIC ACCOUNTS

Order Coleoptera  
Family Carabidae  
Genus *Chlaenius* Bonelli, 1810  
Subgenus *Pachydinodes* Kuntzen, 1919

#### Key to species of the subgenus *Pachydinodes* from Korea

1. Elytra with yellowish spot or bend ..... 2  
– Elytra without yellowish spot or bend .....  
..... *C. abstersus* Bates
2. Elytral spot connected to apex ..... 3  
– Elytral spot not connected to apex .....  
..... *C. tetragonoderus* Chaudoir
3. Length more 13 mm, head and pronotum with strong reddish coppery luster in dorsal ..... 4  
– Length less than 13 mm, head and pronotum with strong green or greenish luster in dorsal ..... *C. hamifer* Chaudoir
4. Spot of elytral apex located at interval 4 to 8 .....  
..... *C. virgulifer* Chaudoir  
– Spot of elytral apex located at interval 3 to 8 .....  
..... *C. pictus* Chaudoir

#### <sup>1</sup>\**Chlaenius hamifer* Chaudoir, 1856 (Fig. 1)

*Chlaenius hamifer* Chaudoir 1856: 187.

*Chlaenius bihamatus* Chaudoir, 1856: 187.

*Chlaenius queenlandicus* Sloane, 1910: 435.

**Material examined.** Korea: 1 ♂, Gyeonggi-do, Suwon-si, 22 Jun 1999, Park JK.

Korean name: <sup>1</sup>\*녹색무늬먼지벌레 (신칭)

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**Fig. 1.** Photo of *Chlaenius hamifer* Chaudoir from Korea (length 13 mm).



**Fig. 2.** Aedeagus of *Chlaenius hamifer* Chaudoir in lateral view. Scale bar=1.9 mm.

**Description.** Body length 13.0 mm, width 5.2 mm. Head and pronotum with strong greenish shiny, elytra dark brown, pronotum brown at latero-margin part. Antenna, labrum, mandible, palpi and legs yellowish brown. Ventral side black. **Head:** Relatively long, a little convex, dorsal side punctuate, with longitudinal rugose at laterodorsal area. Clypeus setae normal, antenna pubescent from 4th segment, palpi cylindrical shape. **Pronotum:** A little convex, surface distinctly yel-

lowish pubescent and deeply and largely punctuate than head disk, more concentrate at base, base with two fovea, a little wide and long, with transverse meshes at base, basal angle rounded. **Elytra:** Elongately elliptic, widest near behind of middle, surface densely pubescent with small punctuate at interval and striae strongly and deeply punctuate, elytral apex with yellowish bend at interval 3 to 8, connected to apex, middle side of bend combined to marginal area of apex. **Legs:** Yellowish brown, 5th segment of tarsus with ventral setae rows. **Aedeagus (Fig. 2):** Almost sickle shape, apex very hooked and twisted and concaved on dorsal view, right paramere wide and rounded at least 2.5 times more wide than left one, left paramere narrowed.

**Notes.** This species identified easily by greenish head and pronotum in dorsal and shape of yellowish bend at elytral apex (Nakane, 1986). And it is very similar to *C. virgulifer*, but distinguished by size, dorsal color and elytral bend shape.

**Distribution.** Korea (new record), Arab Emirates, Australia, Bhutan, China, Japan, Nepal, Pakistan, Oriental region.

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