

THE HAWAIIAN THYSANINAE (Hym. : Chalcidoidea : Encyrtidae)

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Abstract: The genus *Thysanus* Walker in Hawaii is placed in the subfamily Thysaninae, Encyrtidae. Key to species, synonymy, distribution and host records are given.

In Hawaii, there are only 3 species of the subfamily Thysaninae, all belonging to a single genus, *Thysanus* Walker. The Thysaninae superficially resemble two families, Eulophidae (subfamily Aphelininae) and Encyrtidae. Peck (1963) in "Catalogue of the Nearctic Chalcidoidea" listed two genera and 20 species under the family Signiphoridae, thus changing his usage of the family name Thysanidae, of his 1951 catalog. However, in 1964, "Keys to the Chalcidoidea of Czechoslovakia" by Peck, Bouček and Hoffer, they reverted to the Thysanidae. Because of the presence of the long and unsegmented antennal club, the broad and long mid tibial spur, the narrow scutellum and other characters resembling that of the family Encyrtidae, I am placing this group of wasps as the subfamily Thysaninae of the Encyrtidae, rather than as the family Thysanidae of Peck, Bouček and Hoffer (1963) and earlier authors.

Genus *Thysanus* Walker

Thysanus Walk., 1839, Ann. Nat. Hist. **4**: 234 (type: *Thysanus ater* Haliday, monobasic);
—Peck, 1963, Canad. Ent., Suppl. **30**: 324.
Signiphora Ashmead, 1880, Orange Insects, p. 29 (type: *Signiphora flavopalliata* Ashm., monobasic).

KEY TO HAWAIIAN SPECIES OF THYSANUS

1. Body partly or nearly yellowish 2
Body wholly fuscous to blackish **dactylopii**
2. Thorax lemon yellowish except a narrow brown band across base of pronotum...**aspidioti**
Thorax blackish with a single yellow band across base of mesonotum to metanotum
and continued between two wings to meso-metapleura and meso-metasternites...
..... nr **unifasciatus**

Thysanus aspidioti (Ashmead)

Signiphora aspidioti Ashm., 1900, Proc. U.S. Nat. Mus. **22**: 412.

Thysanus aspidioti: Swezey, 1941, Proc. Haw. Ent. Soc. **11**: 2.—Peck, 1963, Canad. Ent.,
Suppl. **30**: 324.

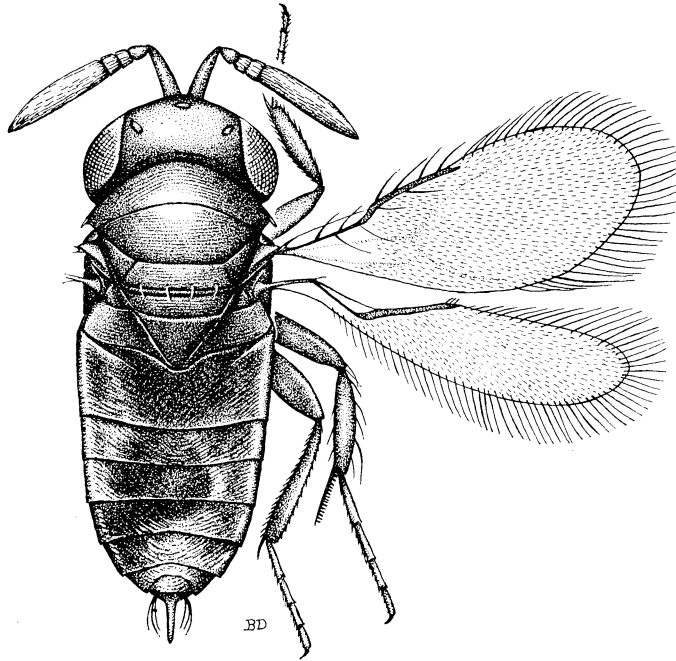


Fig. 1. *Thysanus dactylopii* (Ashmead), ♀.

Thysanus sp., Fullaway, 1912, Rept. Haw. Agric. Exp. Sta., p. 29; 1920, Proc. Haw. Ent. Soc. 4: 239.

DISTRIBUTION: Mexico, Argentina, Virginia, Hawaiian Is. (Oahu).

HOST: Homoptera, Diaspididae: *Aspidiotus hederæ* (Vallot).

Thysanus dactylopii (Ashmead) Fig. 1.

Signiphora dactylopii Ashm., 1900, Proc. U.S. Nat. Mus. 22: 410.

Thysanus dactylopii: Peck, 1963, Canad. Ent., Suppl. 30: 325.—Swezey, 1928, Proc. Haw. Ent. Soc. 7: 182; 1939, *Ibid.* 7: 343, 486.—Fullaway, 1932, *Ibid.* 8: 118.—Schmidt, 1939, *Ibid.* 10: 194.

DISTRIBUTION: California, New Mexico, Hawaiian Is. (Oahu).

HOSTS: Homoptera, Pseudococcidae: *Anisococcus ephedrae*, *Phenacoccus cevalliae* (After Peck 1963); reared ex *Dysmicoccus boninsis* (Kuwana) with *Xanthoencyrtus fullawayi* Timb. by Beardsley; *Ferrisiana virgata* (Ckll.), *Chorizococcus rostellum* Lobdell, *Trionymus insularis* Ehrhorn.

Thysanus* nr *unifasciatus (Ashmead)

Signiphora unifasciatus Ashm., 1900, Proc. U.S. Nat. Mus. 22: 410.

Thysanus unifasciatus: Peck, 1963, Canad. Ent., Suppl. 30: 330.

DISTRIBUTION: Florida, Georgia, Hawaiian Is. (Oahu).

HOST: Homoptera, Diaspididae: reared by J. W. Beardsley, ex *Furcaspis biformis* (Cockerell) with *Plagiomerus* (Encyrtidae).