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**DESCRIPTION OF *ENDOTHENIA APOTOMISANA* SP. N.  
AND *CYDIA PELIONAE* SP. N. FROM PELION MOUNTAINS, GREECE  
(LEPIDOPTERA TORTRICIDAE)**

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Trematerra P., Colacci M. – Description of *Endothenia apotomisana* sp. n. and *Cydia pelionae* sp. n. from Pelion Mountains, Greece (Lepidoptera Tortricidae).

Two species of Lepidoptera Tortricidae Olethreutinae: *Endothenia apotomisana* sp. n. and *Cydia pelionae* sp. n., collected in Greece (Thessaly) on Pelion Mountain's, are described as new to science.

KEY WORDS: Lepidoptera, Tortricidae, *Endothenia apotomisana*, *Cydia pelionae*, new species, Greece.

## INTRODUCTION

In the present work *Endothenia apotomisana* sp. n. (Tortricidae Olethreutinae Olethreutini) and *Cydia pelionae* sp. n. (Tortricidae Olethreutinae Grapholitini) are described as new to science, according to available literature (MEYRICK, 1912; KUZNETSOV, 1962, 1989; RAZOWSKI, 2003; AARVIK, 2013).

The Lepidoptera Tortricidae from Greece have received only sporadic attention by both local and foreign lepidopterists with publications referring to one or few entities (for example AARVIK and KARSHOLT, 1993; TREMATERRA and KARSHOLT, 1996; TREMATERRA and AARVIK, 1998; BASSI, 2014; HUEMER, 2016), while lacking summary works that consider the Hellenic fauna as a whole (GOZMANY, 2012).

Our materials were collected on the Pelion Mountains (Magnisia, Greece) in the para-Mediterranean broad-leaved deciduous trees zone (*Quercetalia pubescens*); this zone includes Oak forests (*Quercus frainetto*) and Chestnut forests (*Castanea sativa*).

### *Endothenia apotomisana* sp. n.

#### MATERIAL EXAMINED

Holotype, 1 male, Greece – Magnisia, Pelion, Drakia, 980 m, 6.IV.2016, 39.378178°, 23.029793°, M. Colacci and C. Rumbos legit. (Collection Trematerra, Campobasso, Italy).

#### DESCRIPTION

Adult. Wingspan 14 mm (Fig. I, 1). Head and thorax dark brown, labial palp brownish. Ground colour of distal half of forewing whitish with weak brownish grey shades, fasciae and submedian interfascia suffused with brownish grey, more whitish in dorsal portion, with brownish grey lines; costal strigulae brown; markings brownish grey with more brown, distinct transverse lines, with diffused basal blotches; dark brown median fascia; terminal markings weaker, rusty; tornal blotch brownish-grey; cilia brown and brownish-grey, relatively concolorous with wing markings

and whitish basally. Hindwing light brown, mixed brown-grey distally; cilia paler, brownish basally.

Male genitalia (Fig. I, 2-10). Uncus curved with broad terminal part, slightly convex, equipped with several spines and hairs (Fig. I, 4 and 5); socius broad, rounded, subtriangular, with long hairs (Fig. I, 6); tegumen broad; short sacculus with spiny lobe (Fig. I, 3); internal side of basal cavity of valva, below spiny lobe, presents a thorny formation plume shaped (Fig. I, 8, 9 and 10); cucullus spined ventrally, medially slender, slightly expanded in the distal part, rounded at apex (Fig. I, 2); saccus slightly pronounced; aedeagus broad, cornutus absent (Fig. I, 7).

Female genitalia. Unknown

#### DISTRIBUTION

Known only for the *locus typus*: Pelion, Drakia (Thessaly, Magnisia, Greece).

#### BIOLOGY

Moth collected with net in early April. Food plants are unknown.

#### DIAGNOSIS

*E. apotomisana* joins the characters of *Apotomis* Hübner and mostly *Endothenia* Stephens. The basal cavity of valvae have a thorny formation extending from the outer side of the outer surface of the valva which is unknown within the family (RAZOWSKI, 1989). The valvae lobe is typical of *Apotomis* at first sight (RAZOWSKI, 2003). There are no external differing characteristics between the species of the two genera.

#### ETHYMOLOGY

This species is named after the genus *Apotomis*.

### *Cydia pelionae* sp. n.

#### MATERIAL EXAMINED

Holotypes, 1 male, Greece – Magnisia, Pelion, Portaria, 1000 m, 8.VI.2016, 39.383714°, 23.025592°, M. Colacci

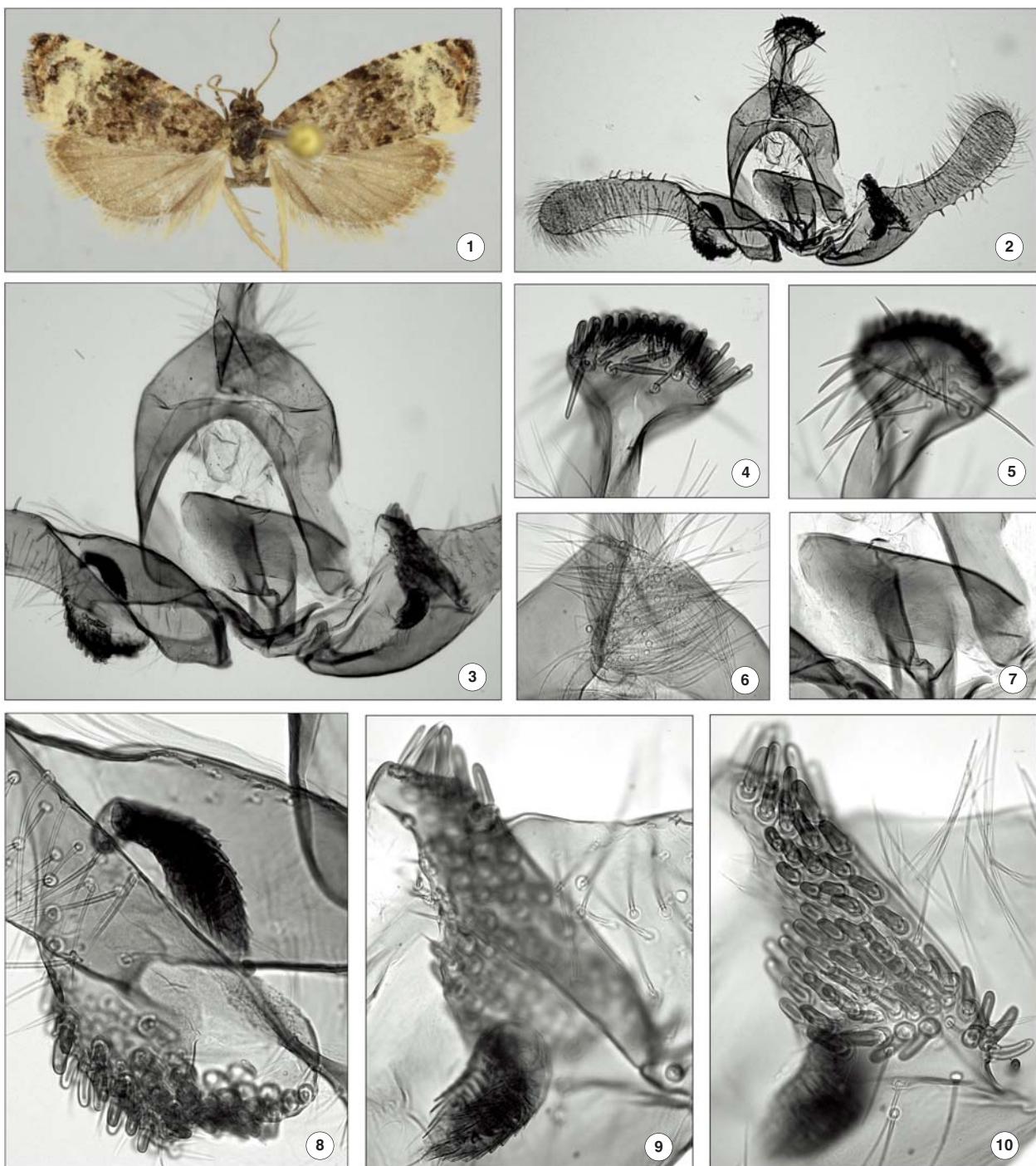


Fig. I – *Endothenia apotomiana* sp. n., holotype: adult (1); general view of male genitalia (2). Details of male genitalia (3): uncus (4, 5); gnathos (6); aedeagus (7); spiny lobe of sacculus and thorny formation: thorny formation on left side (8), thorny formation at different depths on the right side (9, 10).

legit; 1 female, Greece – Magnisia, Pelion, Portaria, 1000 m, 17.VI.2016, 39.383714°, 23.025592°, M. Colacci legit. Paratypes, 1 male, Greece – Magnisia, Pelion, Chania, 1150 m, 17.V.2016, 39.393695°, 23.045711°, M. Colacci legit; 2 males, Greece – Magnisia, Pelion, Chania, 1150 m, 15.VI.2016, 39.393695°, 23.045711°, M. Colacci legit; 1 male and 1 female, Greece – Magnisia, Pelion, Portaria, 1000 m, 17.VI.2016, 39.383714°, 23.025592°, M. Colacci legit. (Collection Trematerra, Campobasso, Italy).

#### DESCRIPTION

Adult (Fig. II, 1). Head and palps light brown. Wing span 12-13 mm (male), 14-15 mm (female). White ground colour of forewing preserved as submedian interfascia, broader in dorsal than in costal half, slightly marked grey dorsally in the middle; basal area of wing creamy brown with browner strigulae and dark brown distal portion, concolorous median fascia; distal half of wing ochreous rust-brown, with distinct refractive markings; white patch divided with brown costal strigulae; speculum ochre-brown with inner spots and well

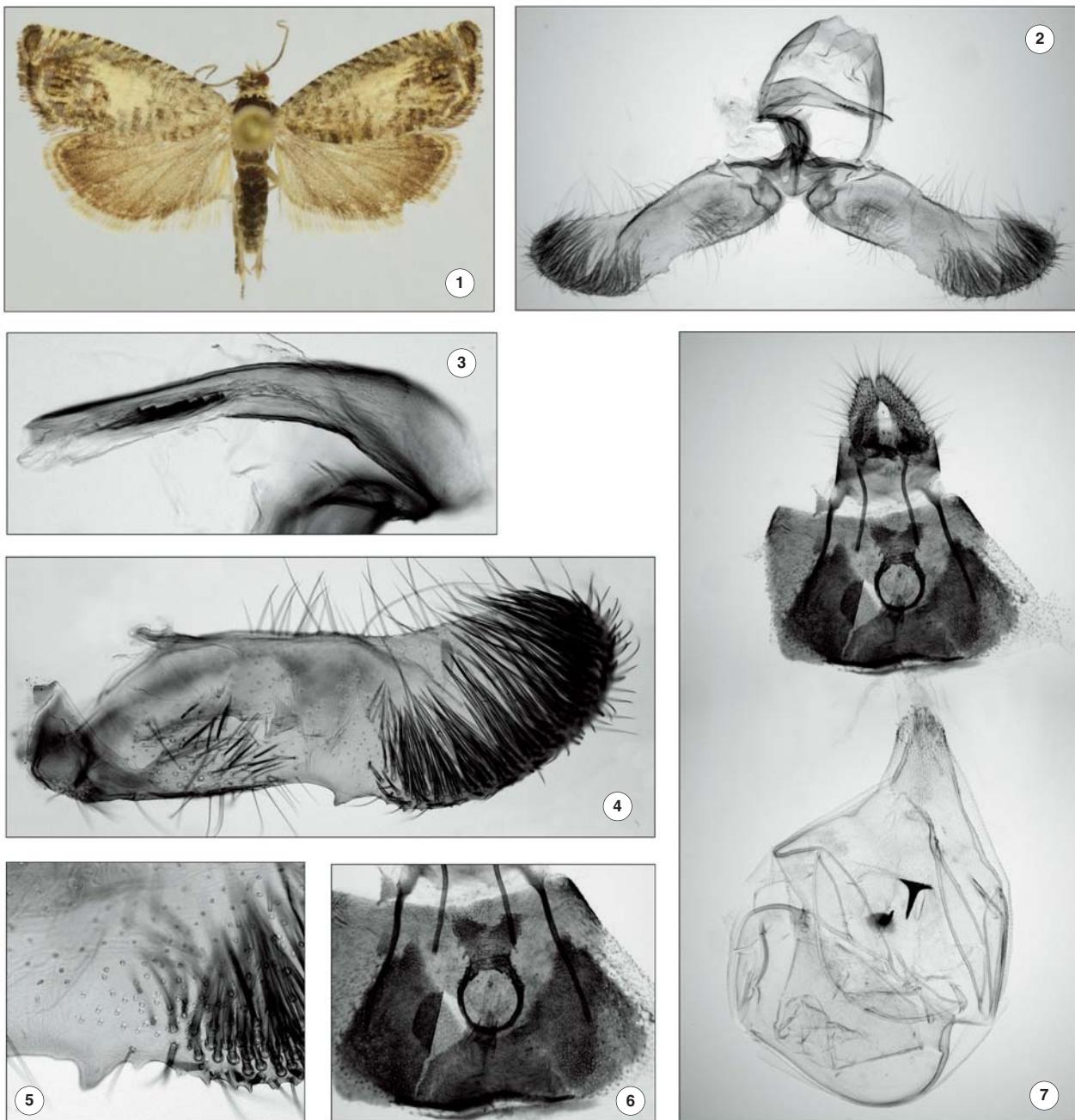


Fig. II – *Cydia pelionae* sp. n., holotype: adult (1); general view of male genitalia (2). Details of male genitalia: aedeagus (3); valva (4); spiny lobe of sacculus (5). General view of female genitalia (7); detail of antrum, lamella postvaginalis and subgenital sternite (6).

developed lines; outer line of speculum grey; basal fascia dark brown. Cilia brownish. Hindwing brownish, paler basally, darker on periphery; cilia light brown.

Male genitalia (Fig. II, 2-5). Developed tegum (Fig. II, 2); long valvae with concave costal margin (Fig. II, 4); cucullus with rounded apex; sacculus developed; caudal angle of sacculus broad; valvae neck weakly developed; ventral incision slightly rounded; cucullus slender, spined and with small ventro-anterior prominences (Fig. II, 5); basal cavity of valva small; aedeagus simple and slender, posteriorly tapering, without dorso-postmedian formation; cornutus with seven small spines (Fig. II, 3).

Female genitalia (Fig. II, 6 and 7). Sterigma rounded,

forming a ring around ostium bursae, with an elongated, relatively slender postostial part expanding posteriorly (Fig. II, 7); subgenital sternite relatively weakly sclerotized (Fig. II, 6); colliculum membranous; ductus bursae fairly long with traces of sclerite beyond base; corpus bursae broad; signa small.

#### DISTRIBUTION

Known only from the type locality.

#### BIOLOGY

Our specimens were collected with net on Pelion Mountain's (Greece) during May and June. Food plants are unknown.

## DIAGNOSIS

Externally *Cydia pelionae* is similar to other species in the *succedana* group, but it differs in male genitalia by the caudal angle of the sacculus, by the small prominences between sacculus and cucullus and by aedeagus without a dorso-postmedian process (DANILEVSKY and KUZNETSOV, 1968). The female genitalia differ by sterigma around the ostium bursae, and by an elongated, relatively slender postostial part expanding posteriorly.

## ETHYMOLOGY

The name is derived from the type locality in Pelion Mountains.

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