

## *Carpathonesticus borutzkyi*, the first record of Nesticidae from the Crimea (Aranei: Nesticidae)

### *Carpathonesticus borutzkyi* — первая находка нестицид в Крыму (Aranei: Nesticidae)

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КЛЮЧЕВЫЕ СЛОВА: пауки, *Carpathonesticus borutzkyi*, переописание, новая находка, Крым.

**ABSTRACT.** *Carpathonesticus borutzkyi* (Reimoser, 1930), known previously from Turkey and Abkhazia, has been recorded from the Crimea for the first time. The finding of *C. borutzkyi* is the first record of Nesticidae in the Crimea, representing also the northernmost locality of the species range. The species is redescribed and illustrated on the basis of Crimean specimens.

**РЕЗЮМЕ.** В Крыму обнаружен *Carpathonesticus borutzkyi* (Reimoser, 1930), ранее известный только из Турции и Абхазии. Крым — самое северное место обитания этого вида. *C. borutzkyi* — это первый представитель семейства Nesticidae, найденный в Крыму. Он впервые отмечен в фауне Украины. *C. borutzkyi* переописан по экземплярам из Крыма.

#### Introduction

Only two species of Nesticidae have been recorded from Ukraine: *Nesticus cellulanus* (Clerck, 1758) and *Carpathonesticus galotshkae* Evtushenko, 1993 [Evtushenko, 1993; Mikhailov, 1997]. Until recently, the nesticids have been unknown from the Crimea [Kovblyuk, 2004].

The genus *Carpathonesticus* Lehtinen et Saaristo, 1980 contains 21 described species inhabiting caves of Italy, Bosnia-Herzegovina, Romania, the Ukrainian East Carpathians, Turkey and the Caucasus [Platnick, 2007]. Most *Carpathonesticus* species are limited in their distribution to the Carpathians. Therefore, it was surprising to find the species *Carpathonesticus borutzkyi* (Reimoser, 1930), previously known from Turkey and Abkhazia, in the Crimea. Large distribution ranges are unusual for *Carpathonesticus* species. This paper provides a brief redescription of this interesting species.

Specimens were recently collected in the Crimea by the second author, and are deposited in the Zoology Department of the V.I. Vernadsky Taurida National University, Simferopol, Ukraine, Dr. M.M. Kovblyuk (TNU).

Legs and palpal segments were measured after separation from the cephalothorax. Coloration was described from specimens preserved in 75% ethanol/water solution with added glycerin (9:1 by volume).

Most of the terms for descriptions of the copulatory organs have been adopted from Lehtinen & Saaristo [1980] and Bosselaers [1998]. The following abbreviations are used in the illustrations: c — conductor; co — copulatory orifice; e — embolus; g — vulval gland; pc — paracymbium; ta — terminal apophysis; te — tegular apophysis; vp — vulval pocket.

All measurements are in mm. All scale bars 0.1 mm.

#### Description

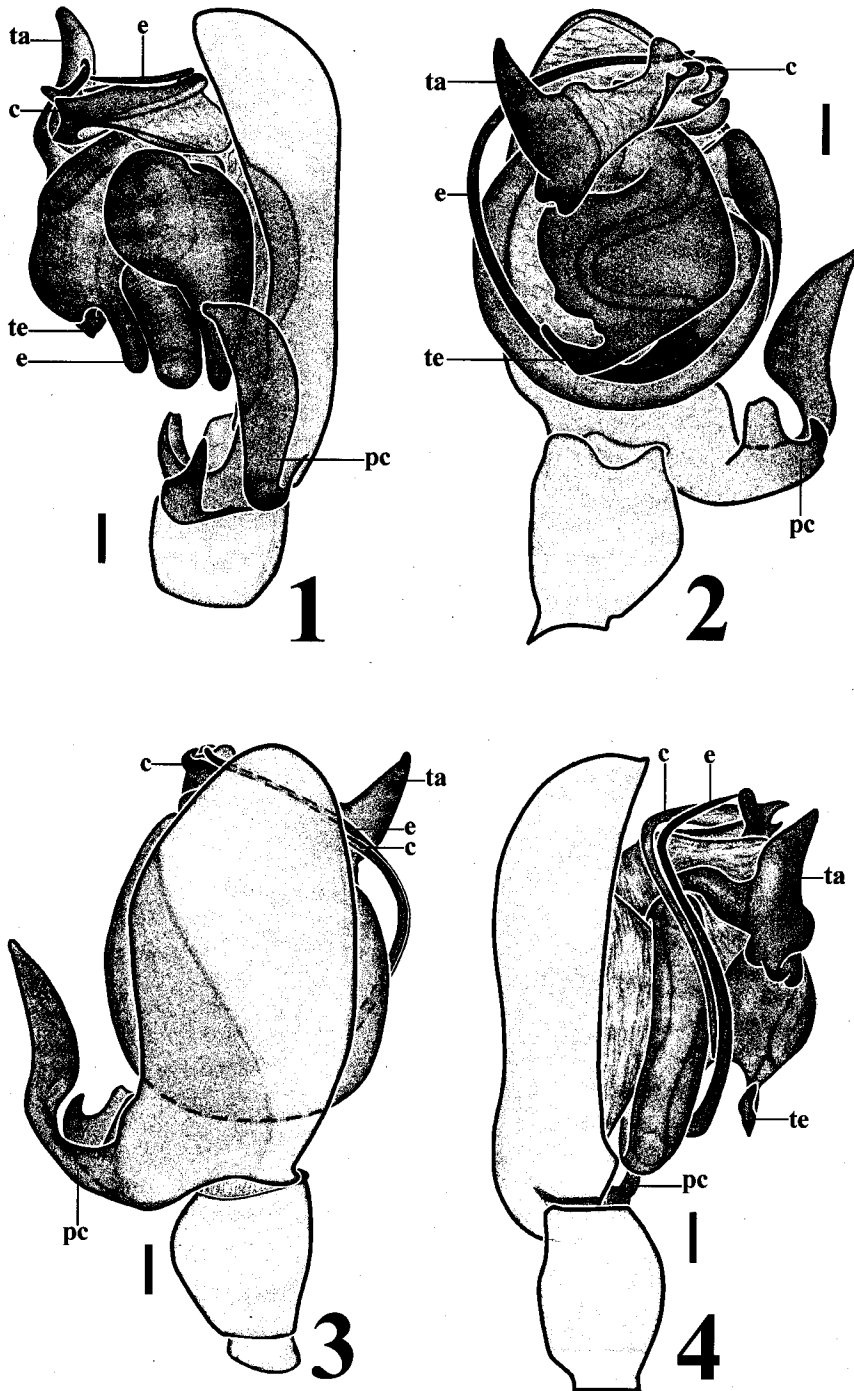
*Carpathonesticus borutzkyi* (Reimoser, 1930)  
Figs 1–6.

**IDENTIFICATION.** Kharitonov [1941: 69–70, figs. 1–2 (♂)]; Kharitonov [1947: fig. 11 (♀)]; Wiehle [1963: 431–435, figs. 1–7 (♂♀)]; Tyshchenko [1971: 206, fig. 616 (♂)]; Mcheidze [1997: fig. 677 (♂)]. For a complete set of taxonomic references see Platnick [2007].

**MATERIAL.** UKRAINE, the Crimea: 1 ♂, 2 ♀♀ (TNU-2098/1), Simferopol Distr., Fersmanovo, in house basement, 15–21.07.2006; 1 ♂ (TNU-2318/1), same place, in bathroom, 14.03.2007.

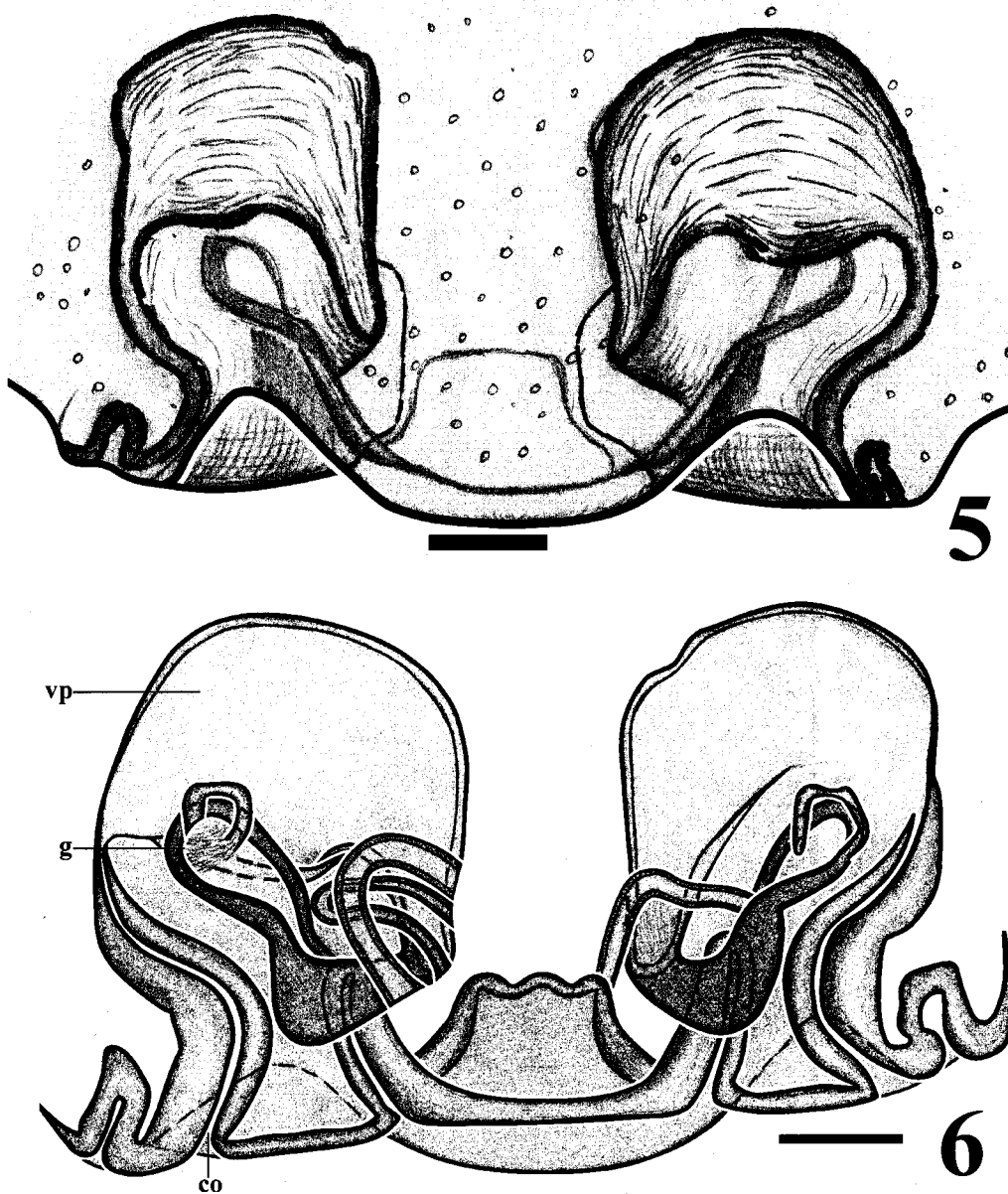
**DIAGNOSIS.** *C. borutzkyi* can be distinguished from all the other *Carpathonesticus* species by the shape of the male palp and female epigyne (see Figs 1–6).

**DESCRIPTION.** Measurements: ♂: total length 4.5; cephalothorax 2.0 long, 1.7 wide; ♀: total length 4.8; cephalothorax 2.0 long, 1.8 wide. Cheliceral teeth (anterior +



Figs 1-4. Male palp of *Carpathonesticus borutzkyi* from the Crimea: 1 — retrolateral view; 2 — ventral view; 3 — dorsal view; 4 — prolateral view.

Рис. 1-4. Пальпа самца *Carpathonesticus borutzkyi* из Крыма: 1 — ретролатерально; 2 — вентрально; 3 — дорсально; 4 — пролатерально.



Figs 5-6. Epigyne of *Carpathonesticus borutzkyi* from the Crimea: 5 — ventral view; 6 —dorsal view.  
 Рис. 5-6. Эпигина *Carpathonesticus borutzkyi* из Крыма: 5 — вентрально; 6 — дорсально.

posterior) in male and female: 3 + 0. Length of leg segments (male / female, n = 1 / 1):

	femur	patella	tibia	metatarsus	tarsus
<b>I</b>	4.4/4.2	1.0/1.0	4.5/4.3	4.4/4.2	1.8/1.6
<b>II</b>	3.8/3.5	0.9/0.9	3.5/3.3	3.3/3.2	1.4/1.4
<b>III</b>	3.1/2.8	0.8/0.8	2.5/2.2	2.6/2.2	1.1/1.0
<b>IV</b>	4.1/3.9	0.8/0.8	3.5/3.2	3.4/3.0	1.2/1.2

Sternum, carapace, chelicerae, legs, abdomen and spinnerets yellow. Male palp as in Figs 1-4; epigyne as in Fig. 5; the vulva as in Fig. 6.

**DISTRIBUTION.** Turkey, Abkhazia, Ukraine (the Crimea, a new record). The Crimea is the northernmost locality of the species range.

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