

A New *Troglohyphantes* from Bulgarian Caves (Araneae, Linyphiidae)

by

Ch. DELTSHEV*

Drensky (1931) reported 5 species of the genus *Troglohyphantes* inhabiting Bulgarian caves. Kratochvil and Miller (1938) and Deltshev (1972) established that two of these species belong to the genus *Centromerus* and the rest to *Lepthyphantes*. From research in the cave "Suchata" near the town of Velingrad, 1♂ and 4♀ *Troglohyphantes* were found. This provided an opportunity for a more profound study which resulted in the establishment of a new species, which I call *Troglohyphantes drenskii* in honour of the well known Bulgarian arachnologist Dr. P. Drensky.

Troglohyphantes drenskii n.sp.

Description of male

Total length — 2.47 mm. Cephalothorax, length — 1.09 mm, wide 1.01 mm, pale yellow with head areal slightly elevated.

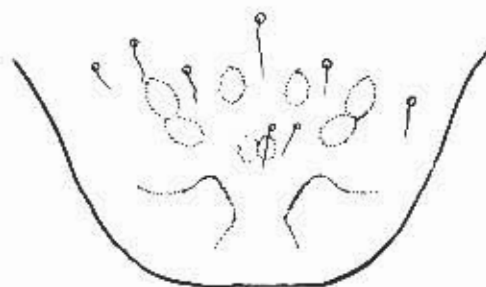


Fig. 1. *Troglohyphantes drenskii* n.sp. Eyes (♂ from in front)

Eyes (fig. 1) very small almost reduced, without any black strip. Clypeus, height — 0.24 mm, concave.

Chelicerae, length — 0.54, wide — 0.40 mm, armed with 3 teeth on outer row and 3 denticles on inner row.

Sternum, length — 0.67 mm, wide 0.67 mm.

Abdomen, length — 1.46 mm, grey.

* Zoological Institute, Bulg. Acad. of Sci., Boul. Rusky 1, Sofia.

Legs, yellowish, long and thin. Femora I with 1 dorsal and 1 prolateral spine on apical half. Femora II-IV with 1 dorsal spine. Tibiae I-II with 1 prolateral, 1 retrolateral and 1 dorsal spine on apical half, and 1 dorsal spine in the middle. Tibiae III-IV only with 2 dorsal spines. Metatarsi I-III with 1 dorsal spine.

Measurements (in mm) of legs:

Lcg	Fe	Pt	Ti	Mt	Ta	Total
I	1.74	0.36	1.83	1.64	1.04	6.61
II	1.50	0.36	1.64	1.55	1.00	6.05
III	1.34	0.32	1.37	1.28	0.82	5.16
IV	1.74	0.36	1.83	1.64	1.00	6.57

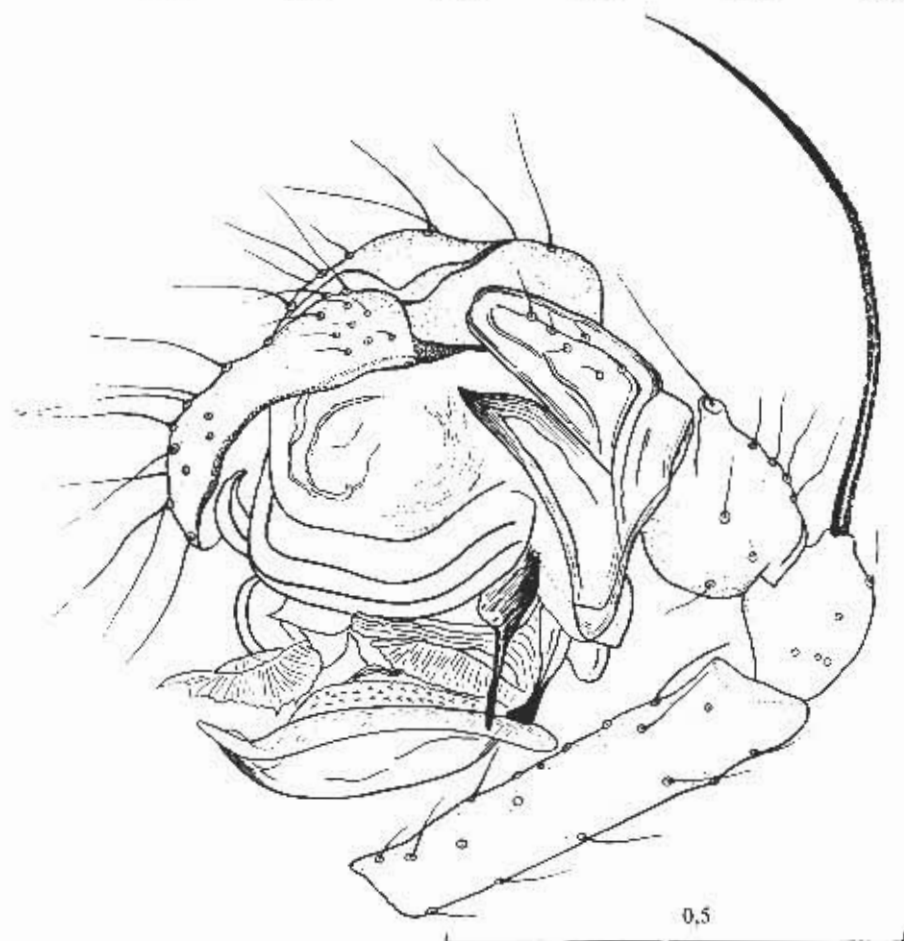


Fig. 2. *Troglodyphantes drenskii* n.sp. Left δ palp, external view.

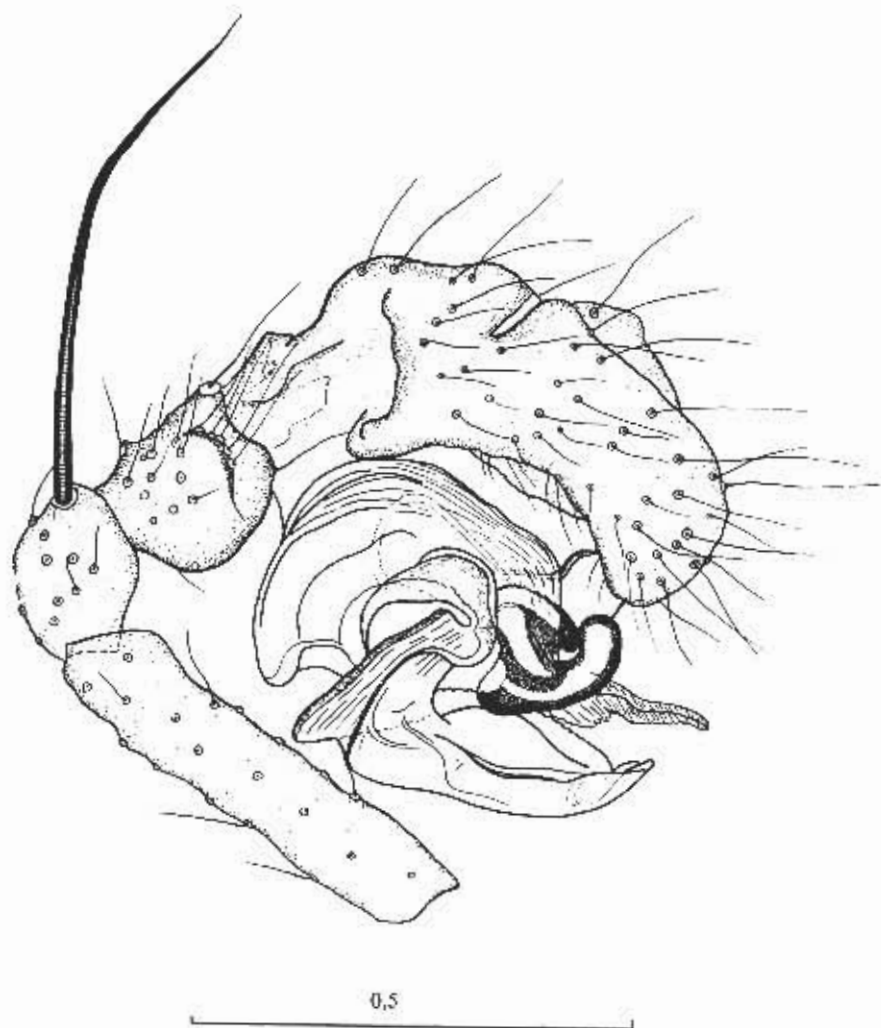


Fig. 3. *Troglodyphantes drenskii* n.sp. Left σ palp, internal view.

Palpus fig. 2, 3, 4. Tibia spherical. Cymbium very similar to that of *T. salax*, with characteristic transverse groove on the dorsal side. Paracymbium forked. Lamella characteristically smaller than embolus and the great part covered by other parts of bulb. Embolus (fig. 5) large and semicircular, cut on the top, like *T. salax*.

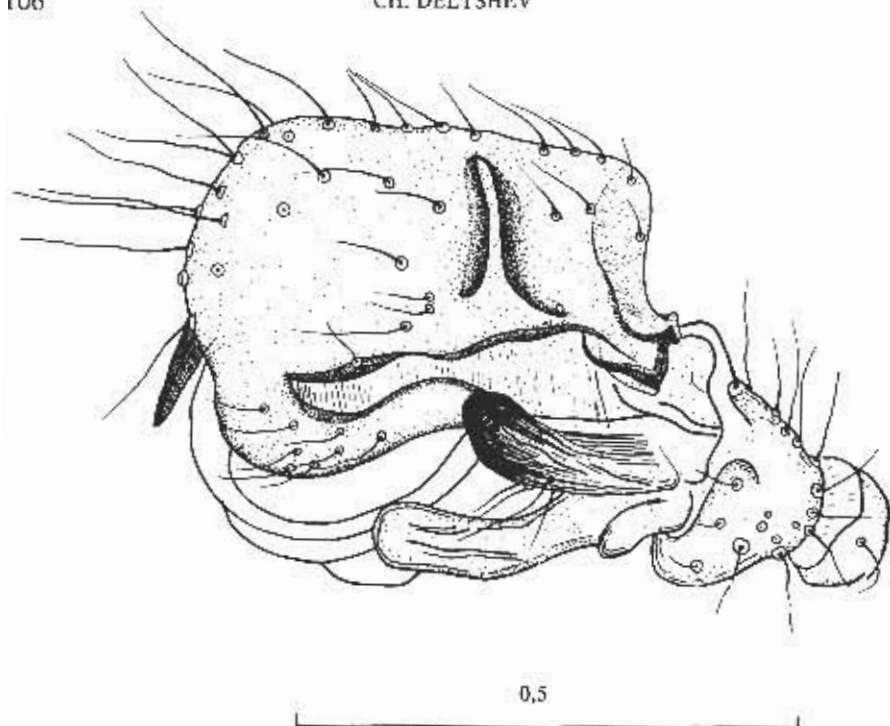


Fig. 4. *Troglodyphantes drenska* n.sp. Left δ palp, dorsal view.

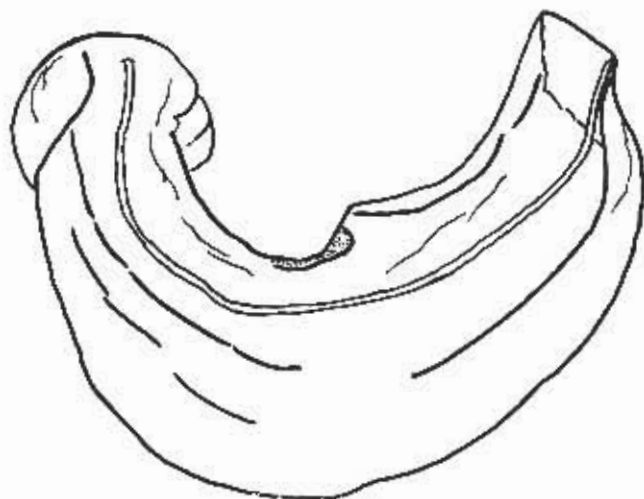


Fig. 5. *Troglodyphantes drenska* n.sp Embolus.

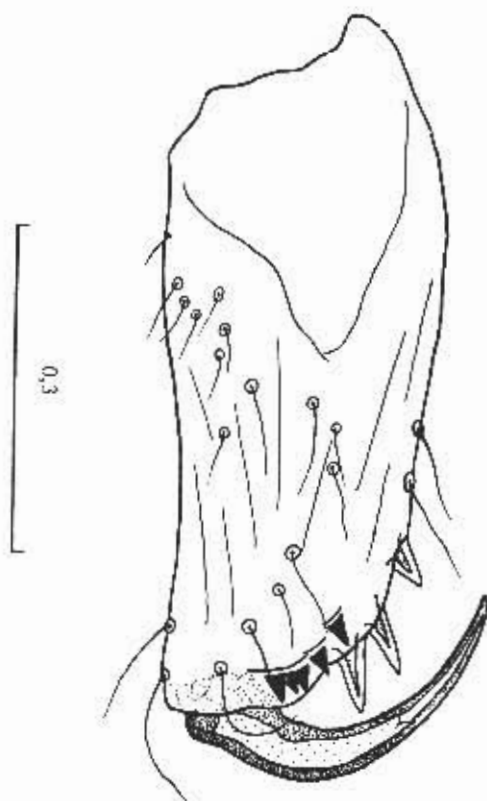


Fig. 6. *Troglodyphantes drenskii* n.sp. Left ♀ chelicera, posterior view.

Description of female

Total length — 2.93 mm. Cephalothorax, length — 1.28 mm, wide 1.09 mm, pale-yellow.

Eyes, very small without any black strip, anterior medians almost reduced. Clypeus, height — 0.24 mm, concave.

Chelicerae (fig. 6), length — 0.64 mm, wide — 0.27 mm with 3 well developed teeth on outer row. Inner row with 5 denticles.

Sternum, length — 0.67 mm, wide — 0.67 mm.

Abdomen, length — 1.64 mm.

Legs: Femora I with 1 dorsal and 1 prolateral spine on apical half. Femorae I–IV with 1 dorsal spine. Tibiae I–II with 1 prolateral, 1 retrolateral and 1 dorsal spine on apical half and 1 dorsal spine in the middle. Tibiae II–IV only with 2 dorsal spines, Metatarsi I–III with 1 dorsal spine.

Measurements (in mm) of legs:

Leg	Fe	Pt	Ti	Mt	Ta	Total
I	1.83	0.40	1.92	1.55	1.09	6.79
II	1.74	0.36	1.83	1.55	1.00	6.48
III	1.46	0.36	1.37	1.37	0.82	5.38
IV	1.92	0.36	1.92	1.74	1.00	6.94

Palpus: Fe — 0.54 mm, Pt — 0.18 mm, Tb — 0.27 mm, Tr — 0.64 mm. Epigyne (fig. 7,8). Lamina basalis elevated above outer range of the body, heart-shaped, very rounded. Very similar to *T. salax*, *T. orpheus* and *T. pademontanus*.

DISCUSSION

Troglohyphantes drenskii n. sp. belongs to the group of *T. orpheus* and is related to *T. salax* and *T. pademontanus*.

Material and locality:

"Suchata pestera" cave near the town Velingrad (district of Pazardžik), 1♂ holotype, 4♀♀ paratypes, 6.IV.1972, 4♀♀ paratypes, 3.VI.1963. The type-material is preserved in collections of the Zoological Institute—BAN, Sofia.

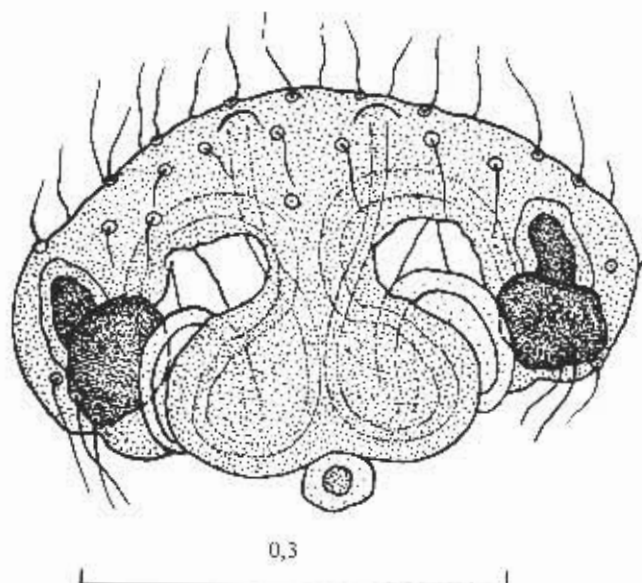


Fig. 7. *Troglohyphantes drenskii* n. sp. Epigyne ventral view.

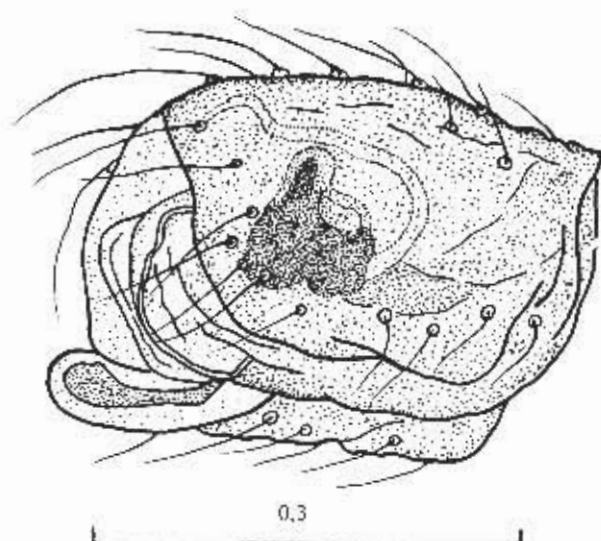


Fig. 8. *Troglodyphantes drenskii* n.sp. Epigyne, lateral view.

SUMMARY

A new species *Troglodyphantes drenskii* is described, which was collected in the cave "Suchata pechera" near Velingrad, Bulgaria. *Troglodyphantes drenskii* n.sp. belongs to the group of *T. orpheus* and is related to *T. salax* and *T. pademontanus*.

RÉSUMÉ

Dans le présent travail est décrite une nouvelle espèce, recueillie dans la grotte "Souchata pechera" près de la ville Velingrad, Bulgarie, *Troglodyphantes drenskii* n. sp. appartient au groupe *T. orpheus* et ressemble à *T. salax* et *T. pademontanus*.

LITERATURE

- DELTSHEV, Ch. — 1972 — A contribution to the study of spiders (Araneae) from caves in Bulgaria II. Genus *Lepthyphantes* in Bulgarian caves. Bull. de l'Institut de Zool. et Musée, t. XXXVI.
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