# Two new species of leafhoppers from the Caucasus (Homoptera: Cicadellidae)

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Allygidius (Dicrallygus) alanensis sp. n. similar to A. (D.) furcatus (Ferr.) and Dryodurgades sindicensis sp. n. closely related to D. dlaholai Wagner are described from the Caucasus.

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The type specimens of the species described below are kept in the Zoological Institute, St.Petersburg.

## Allygidius alanensis sp. n.

(Figs 1-6)

Holotype. of, Russia, Krasnodar Terr., source of Shebsh river, Lysaya Mt., 557 m, 6.VIII.1997 (Gnezdilov).

Paratypes. Russia: Krasnodar Terr.: 2 ơ, 6 ♀, as holotype; 1 ơ, 6 ♀, Ubinskaya settlement, Sober-Bash Mt., 700 m, 28.VIII.1997 (Gnezdilov); 2 ơ, 1 ♀, Nebug, 18.VIII.1924 (Gitterman); Karachaevo-Cherkesia: 1 ơ, Teberda, VII.1915 (Kryzhanovskij); Georgia: 1 ơ, Signakhi Distr., valley of the river Antsal'-or, 18.VII.1913 (Mlokosiewicz); 1 ơ, Abkhazia, Tsebel'da, VIII.1931 (Voronov).

Description. Similar to A. furcatus (Ferr.).

or. Vertex transverse, its anterior edge rounded, hind edge concave. Inner margins of eyes straight. Flagellum with three setae. Pronotum half as long as wide, 1.5 times longer than vertex.

Head, anterior part of pronotum, and scutellum light beige with greyish brown stripes and spots. A pair of two-lobed spots present on either side of coronal suture. Six spots situated near ocelli: four spots between, and two lateral of ocelli. Postclypeus with a pattern composed by transverse and longitudinal stripes on either side of median line. Genae below eyes dark. Hind part of pronotum and fore wings greyish brown. Veins partly whitish. Underside from light beige to greyish brown. Apex of hind tibia and 1st and 2nd tarsomeres dark.

Each lobe of pygofer with long bifurcate appendage and with row of 18-19 macrosetae and 2 microsetae. Base of appendage with several microsetae (Fig. 3). Aedeagal shaft wide in dorsal view, straight, with apical gonopore and a longitudinal comb seen in ventral view (Fig. 5). In lateral view, aedeagal shaft forms an acute angle with base (Fig. 6). Base of appendage with a hollow on dorsal side. Genital plates with 5-6 macrosetae arranged in a row and with numerous microsetae. Plates not covering styli entirely. Styli hammer-like, with small lip at top (Fig. 1), with several microsetae under apical part (Fig. 2).

Q. Sides of subgenital plate with 2 semirounded emarginations, medial part of plate with bifid tooth (Fig. 4). Inner angles of 2nd valvifers strongly stretched. Outer edge of plate and apices of 2nd valvifers black.

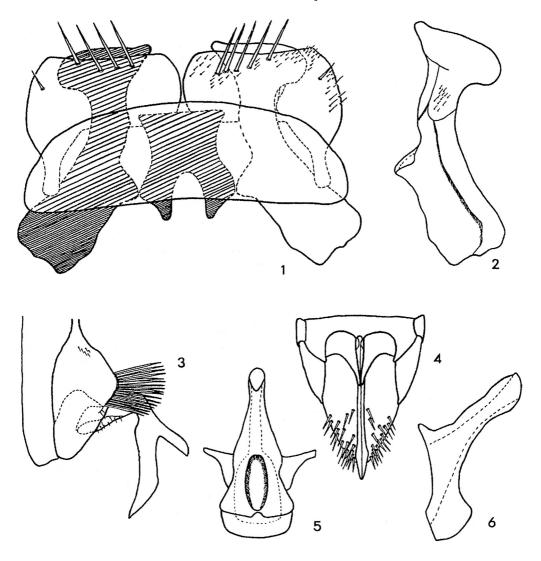
Length: o' 6.3-6.9 mm, \quap 5.7-6.9 mm.

The males of the two related species can be distinguished as follows:

## **Dryodurgades sindicensis** sp. n.

(Figs 7-12)

Holotype. o', Russia, Krasnodar Terr., Shaumyan settlement, Elysavetpol'skaya Mt., 661 m, 21.VIII. 1997 (Gnezdilov).



Figs 1-6. A. alanensis sp. n.,  $\sigma'$  (holotype) and  $\circ$ . 1, valve and genital plates, dorsal view; 2, style; 3, pygofer, lateral view; 4, female genital segments, ventral view; 5, aedeagus, dorsal view; 6, aedeagus, lateral view.

Paratypes. Krasnodar Terr.: 1 o , 1 9, as holotype; 1 o , Goryachiy Klyuch, 14.IX.1997 (Gnezdilov); 1 o , 1 9, railway station Chilipsi, Lysaya Mt., 10.V.1997 (Gnezdilov).

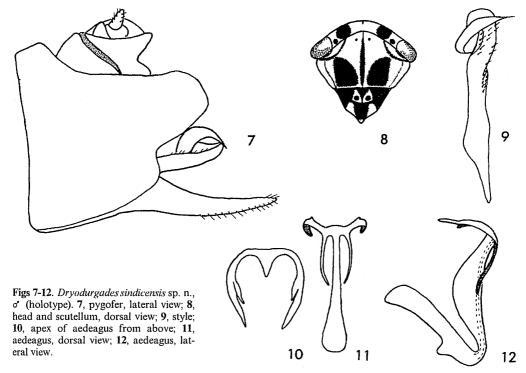
Description. Similar to D. dlabolai Wagn.

o. Vertex arched. Transition between vertex and face rounded. Postclypeus flattened.

Head, pronotum, and fore wings yellow with greyish brown to black spots and stripes (Fig. 8). Vertex with 4 spots arranged in a row perpendicular to coronal suture: 2 large spots inside, 2 small spots outside. Ocelli in black circles, situated at equial dis-

tance from median line and eyes. Postclypeus with pattern composed of transverse and longitudinal stripes. Genae under antennae and apex of anteclypeus dark. Pronotum with 2 large acute-angled spots at base and 2 round spots near anterior margin. Eyes fringed by arcuate stripes merging with acute-angled spots. Scutellum yellow with dark spots. Underside black, genital valve and plates pale. Fore and middle femora with 2 transverse stripes.

Pygofer as in Fig. 7. Genital plates stretched, with obtuse-angled apex. Apices of stylitwisted and stretched (Fig. 9). Aedeagus



compressed. Aedeagal shaft widest in middle part (Fig. 12). Lower appendages of aedeagal apex directed to base of shaft (Fig. 11). Upper appendages of aedeagal apex with 2 teeth on inner side (Fig. 10).

Q. Pygofer and V-VII abdominal sternites pale; external edge of VII sternite with 2 brown spots.

Length: ♂ 4.2 mm, ♀ 4.5 mm.

The males of the two related species can be distinguished as follows:

- 1(2). Basal spots of pronotum round; upper appendages of aedeagal apex with external teeth; apices of styli weakly stretched (see della Giustina, 1989, Fig. 56; Wagner, 1963, Figs 2, A, B) . . . . . . . . . . ..... D. dlabolai Wagn.
- 2(1). Basal spots of pronotum acute-angled; upper appendage of aedeagal apex with inner teeth; api-

..... **D. sindicensis** sp. n.

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