

**POLANA CONCINNA (STÄL) AND A NEW CLOSELY RELATED SPECIES OF GYPONINAE
(HOMOPTERA: CICADELLIDAE) ¹**

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SUMMARY

The female type specimens of *Gypona concinna* Stål have been studied, the male is described and the species is placed in the genus *Polana* subgenus, *Polanana*. A closely related species *P. inimicus* n. sp. is described.

The species of leafhopper, *Gypona concinna* Stål was described (1862) from two female specimens collected at Rio de Janeiro, Brazil and the type specimens have been studied but the species has been difficult to place generically. A male specimen is now available for study and description and the species is placed in *Polana*, subgenus *Polanana*. A closely related species *P. inimicus* is also described and placed in the same subgenus.

Polana concinna (Stål)

(Figs. 1 - 5)

Gypona concinna Stål, 1862, p. 48

Length of male 8 mm., female 8 mm. Crown broadly rounded, more than twice as broad between eyes at base as median length. Ocelli almost twice as distant from each other as distance from either to margin of proximal eye. Color, crown, pronotum and scutellum dark brown to black, unmarked, darker on crown and along lateral margins of pronotum. Forewings brown, a large angular pale spot on costal margin extending almost to middle; a smaller rounded spot on costal margin just before to middle; a smaller rounded spot on costal margin just before dark brown margined apical cells. Apical margin brown. Face dull, pale brown.

Male genitalia: Plates elongate, narrow, four times as long as wide. Styles broadened near apices, curved caudally, and outwardly to form produced, pointed apices. Aedeagal shaft broadened near apex with four apical processes; two arise at either side ventrally and curve ventrally and basad; two slender processes arise dorsally and curve laterally and basad. Pygofer with a small notch on caudal margin near ventral margin.

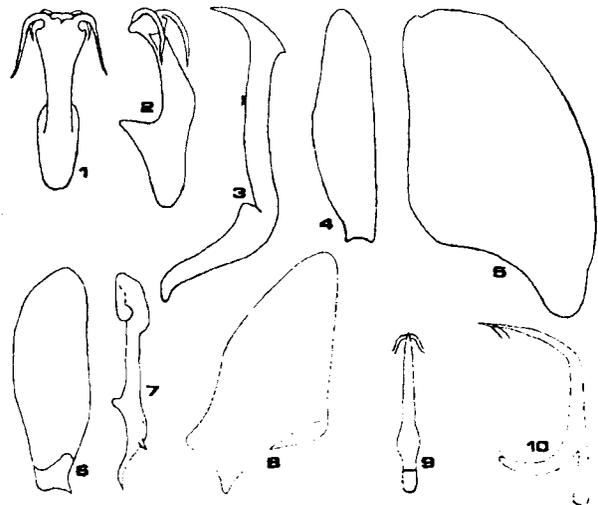
Female genitalia: Seventh sternum with lateral angles rounded to posterior margin which is broadly excavated one-fourth the distance to base and bears a medium broad, produced, apically rounded tooth.

Types-Holotype female and paratype female from Rio de Janeiro, Brazil, in the Stockholm Museum. Allotype male, Callanga, Peru is the U.S. National Museum Collection.

Polana inimicus n. sp.

(Figs. 6 - 10)

Length of male 8.5 mm., female unknown. Crown broadly rounded, more than two and one-half times as broad between eyes at base as medium length. Color dull yellow, crown with dark brown spots around eyes. Pronotum yellow



POLANA CONCINNA STÄL. 1. aedeagus ventrally; 2. aedeagus laterally; 3. style laterally; 4. plate ventrally; 5. pygofer laterally. **POLANA INIMICUS N. SP.** 6. plate ventrally; 7. style laterally; 8. pygofer laterally; 9. aedeagus ventrally; 10. aedeagus laterally.

low with irregular dark brown markings behind each eye. Scutellum, yellow with basal angles and a median basal portion dark brown. Forewings yellow, basal portion of clavus, a spot at end of each claval vein, and apex, dark brown. Median costal area and apical portion of forewing mottled with dark brown.

Male genitalia with plates almost three times as long as broad, apices rounded. Style with blade narrow on basal half, broadened on apical half, an angled projection on half, broadened on apical half, an angled projection on ventral margin at half length of blade, curved dorsally and apically, apex bluntly pointed. Aedeagal shaft slender on apical half, with two pairs of short subapical processes bent laterad and basad. Pygofer narrowed and blunt at apex.

Types: Holotype male Callanga, Peru in the U.S. National Museum Collection.

Notes: In coloration and general appearance, this species resembles *concinna*. They can be separated by the different genitalic structures as illustrated.

LITERATURE CITED

DELONG, Dwight M., and Paul H. FREYTAG, 1972. Studies of the World Gyponinae (Homoptera: Cicadellidae), The Genus *Polana*. *Arq. Zool.*, S. Paulo, 22(5) 239-324.

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