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**Studies of Gyponinae (Homoptera:Cicadellidae):
Seven New Species of *Gypona* from Central
and South America**

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ABSTRACT

Seven new species of *Gypona* (Homoptera: Cicadellidae) are described. Four *G. quadrella* n. sp., *G. amapa* n. sp., *G. quadrina* n. sp., and *G. nigromedia* n. sp. are placed in the subgenus *Gypona*; Three, *G. compacta* n. sp., *G. anfracta* n. sp. and *G. venella* n. sp. are placed in the subgenus *Marganalana*.

A revisional study of *Gypona* was published by DeLong and Freytag (1964) including some 140 species and four subgenera. DeLong and Martinson (1972) added another 14 species. Four new species from Panama and six new species from South America were described by DeLong and Kolbe (1974-75). Fourteen more new species were described by DeLong and Freytag (1975). Seven new species are described in this manuscript. Four are placed in the subgenus *Gypona* and three in the subgenus *Marganalana*.

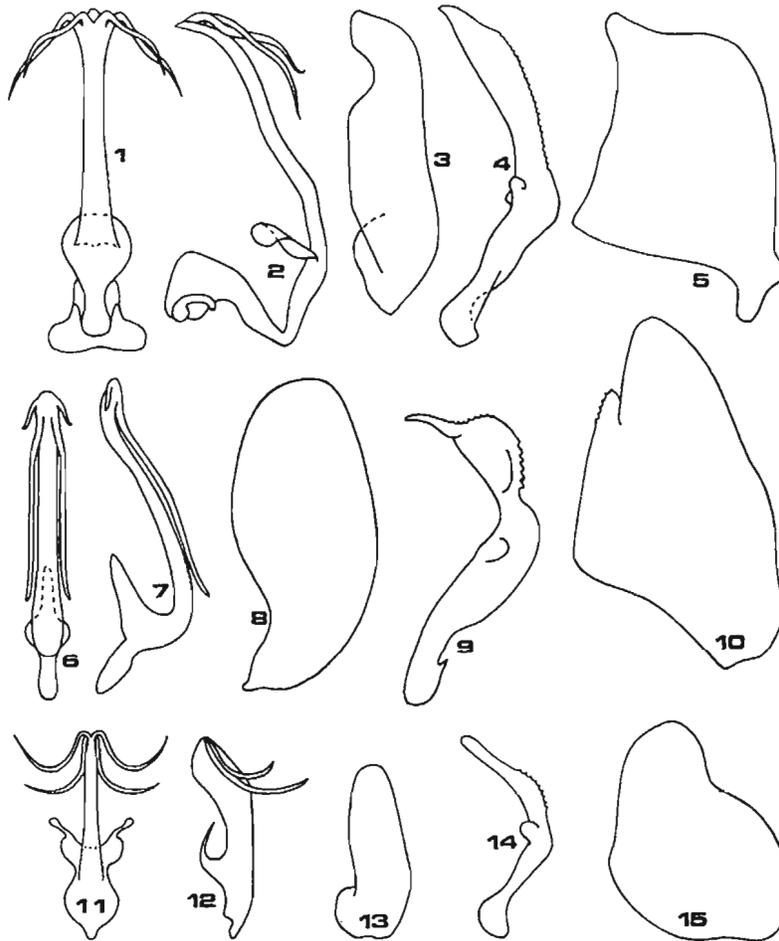
Gypona quadrella n. sp.
(Figs. 1-5)

Length of male 8.5 mm, female unknown. Crown broadly rounded, median length more than half basal width between eyes. Color of crown black with yellow margin, yellow spots surrounding ocelli and a round yellow spot, at base, behind each ocellus. Pronotum yellow, two median black spots along margin, at base, an irregular black line extending caudad behind each eye and an irregular black line extending from humeral angle to disc. Scutellum black with basal and apical angles yellow. Forewings yellow, discal, apical and claval areas smoky, veins in these areas dark brown.

Male genitalia with plates more than three times as long as median width, roundly notched on inner margins near rounded apices. Style with blade serrate on ventral margin, gradually narrowed to four fifths its length, apical fifth gradually narrowed, tip bluntly pointed. Aedeagal shaft with narrow blunt apex; four apical processes arise, two each side of apex, the inner pair are more ventral and slightly shorter than the outer pair which are about one-half length of shaft. Pygofer broad apically, slightly produced on dorsocaudal margin.

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FIGS. 1-5. *Gypona quadrella* n. sp. 1. aedeagus ventrally. 2. aedeagus laterally. 3. plate ventrally. 4. style laterally. 5. pygofer laterally. FIGS. 6-10, *G. amapa* n. sp. 6. aedeagus ventrally. 7. aedeagus laterally. 8. plate ventrally. 9. style laterally. 10. pygofer laterally. FIGS. 11-15, *G. quadrina* n. sp. 11. aedeagus ventrally. 12. aedeagus laterally. 13. plate ventrally. 14. style laterally. 15. pygofer laterally.

Holotype male Peru, Chanchamayo 21-VII-60 J. Salazar, on leguminosae, in the North Carolina State University Collection.

This species is placed in the subgenus *Gypona* and is closely related to *apta*.

Gypona amapa n. sp.
(Figs. 6-10)

Length of male 7.5 mm, female unknown. Crown broadly rounded, basal width between eyes twice median length. Color sordid greenish brown, crown with anterior marginal line, ocelli red. Pronotum with a round black spot behind each eye, not quite half length of pronotum. Forewings brownish subhyaline veins darker brown.

Male genitalia with plates twice as long as median width, apices broadly rounded. Style with blade narrowed at two-thirds its length by a rounded notch on ventral margin; apical third as broad as basal portion of blade, serrate on ventral margin with a fingerlike apical tip which is pointed and extends dorsally. Aedeagal shaft slender with a pair of very short apical processes extending basad to base of shaft. Pygofer with apex narrowed and bluntly angled, a short blunt serrate protrusion on dorsal margin, near apex.

Holotype, male Ter., Amapa S. da Navio 6-VI-60 Bicelli Coll. in the Museu de Zoologia da Universidade de Sao Paulo, Brazil.

This species placed in the subgenus *Gypona* is related to *stylata*.

Gypona quadrina n. sp.
(Figs. 11-15)

Length of male 8 mm, female unknown. Crown flat, twice as wide at base between eyes as median length; ocelli twice as distant from proximal eye as from median line. Color, crown black, margin and area around ocelli brown. Pronotum pale brown, with a round black spot and a few irregular black markings behind eyes. Scutellum pale brown, basal angles black. Forewings pale brown, veins dark brown; black spots at end of each claval vein at commissure and median portion of vein forming outer sector, black.

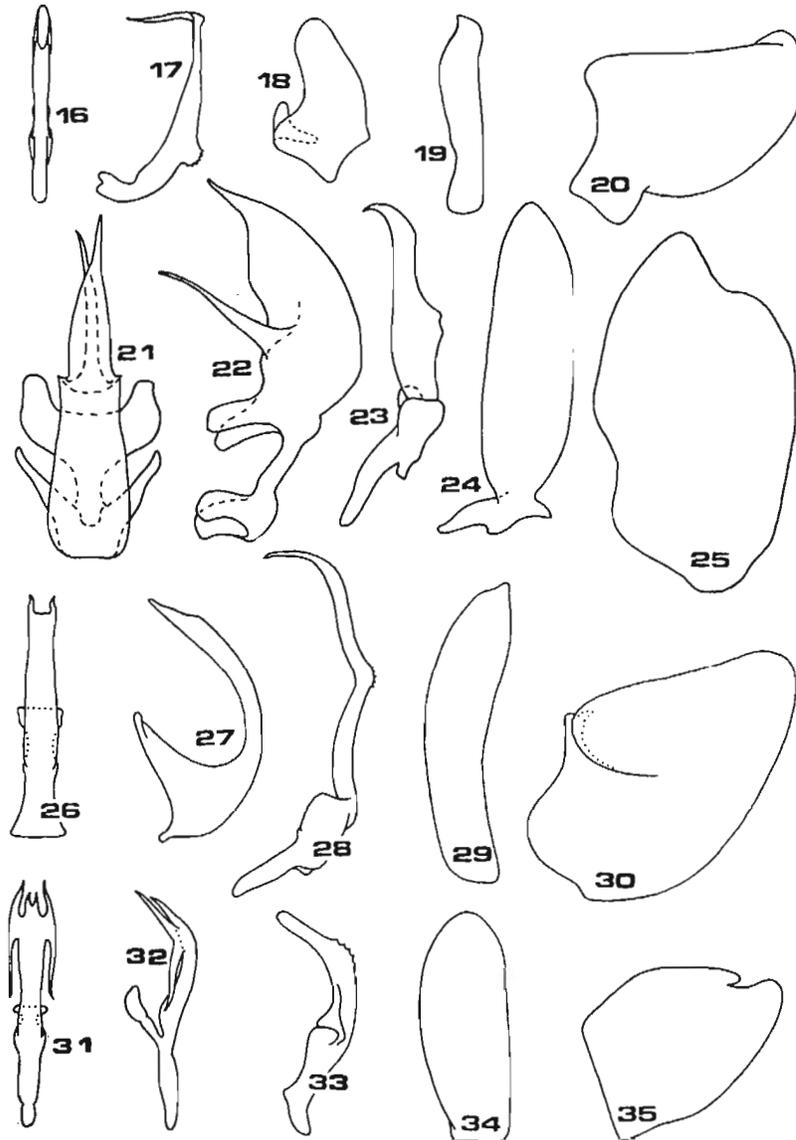
Male genitalia with plates more than three times as long as median width, apices rounded. Style with basal half serrate on ventral margin, apical half curving dorsally, a little narrower than basal portion, apex rounded. Aedeagal shaft with a prominent curved spine on dorsal margin at half its length; shaft bearing four apical spines, each about two-thirds length of shaft, each arising apically and curving parallel to them. Pygofer slightly narrowed, rounded at apex.

Holotype, male, from canyon at Machu Picchu, Peru, XI-25-67 DeLong Coll., in the DeLong Collection.

This species is placed in the subgenus *Gypona* and is related to *fina*.

Gypona nigromedia n. sp.
(Figs. 16-20)

Length of male 8.5 mm, female unknown. Crown broadly rounded, more than twice as wide at base between eyes as median length. Color,



FIGS. 16-20. *Gypona nigromedia* n. sp. 16. aedeagus ventrally. 17. aedeagus laterally. 18. style laterally. 19. plate ventrally. 20. pygofer laterally. FIGS. 21-25. *G. compacta* n. sp. 21. aedeagus ventrally. 22. aedeagus laterally. 23. style laterally. 24. plate ventrally. 25. pygofer laterally. FIGS. 26-30. *G. anfracta* n. sp. 26. aedeagus ventrally. 27. aedeagus laterally. 28. style laterally. 29. plate ventrally. 30. pygofer laterally. FIGS. 31-35. *G. venella* n. sp. 31. aedeagus ventrally. 32. aedeagus laterally. 33. style laterally. 34. plate ventrally. 35. pygofer laterally.

crown yellow, irregularly mottled with red. Pronotum yellow posterior portion pale brown, irregular red mottling behind eyes and four round black spots behind each eye; a short black dash just back of anterior margin and extending inward from each eye. Scutellum yellow, forewings pale yellow, veins of claval area dark yellow, veins of discal, claval and posterior apical area black.

Male genitalia with plates almost four times as long as median width, apices blunt, pointed on outer margin. Style short and broad, one and one-half times as long as wide, apex blunt, rounded. Aedeagal shaft slender in ventral view, tapered in lateral view to a slender apical third which is bent at right angles, extends dorsally and is sharp pointed at apex. Pygofer broadly rounded at apex.

Holotype, male, Colombia 1942, Richter, in the North Carolina State University Collection.

Placed in the subgenus *Marganalana* and related to *denera*.

Gypona compacta n. sp.

(Figs. 21-25)

Length of male 7.5 mm, female 7.5 mm. Crown produced and roundly angled more than half as long at middle as basal width between eyes. Color yellow tinged with green, without distinct markings.

Male genitalia with plates three times as long as median width, apex bluntly angled. Style with blade narrowed on ventral margin (concavely rounded) at half its length, apical fourth dorsally curved, apex slender, pointed, bent dorsally. Aedeagal shaft short, spindle-shaped, with apex slender, pointed: a long tapering spur extending almost to apex of shaft arises on dorsal margin one-third distance from base of shaft. Pygofer narrowed and bluntly rounded at apex.

Female genitalia with posterior margin of seventh sternum slightly produced and rounded on median third.

Holotype, male, Corrientes Empedrado VIII-19 4. Paratypes: 7 ♀, Br. Crieres cuicad, 19-II-1912 and 1-III-1912; 1 ♀, Pindapoy Misiones, 14-XII-1941, Biraben Bezzi Coll.; 2 ♀, Jose c. Paz. Bs. As. 1940, J. A. Rosas, Costa leg; 3 ♀, Br. Ocieres, Flores, 5-II-1919; 3 ♀, same except I-1918; 2 ♀, same except 20-I-1919; 1 ♀, same except 4-II-1919; 1 ♀, Delta Rio Chano, 19-I-19.

Holotype and paratypes in the La Plate Museum, Argentina, paratypes in the DeLong collection, The Ohio State University.

This species is placed in the subgenus *Marganalana* and is different from any described species but closest to *evadera*.

Gypona anfracta n. sp.

(Figs. 26-30)

Length of male, 9 mm; female, 10 mm. Crown broad, rounded, more than one half as long at middle as basal width between eyes.

Color: crown pale yellow. Pronotum pale yellow with a row of 8 dark brown spots across anterior portion. Central and posterior portions with scattered brown punctate spots. Scutellum yellow. Forewings yellow with dark brown spots along commissure, on disc, and on apical half of forewing.

Male genitalia with plates four times as long as median width, apices bluntly pointed. Style with long slender blade which is roundly notched ventrally at about middle. The indented portion is serrate on ventral margin; apex curving dorsally tapering and sharp pointed. Aedeagal shaft curved dorsally tapered at apex with a median, broad, U-shaped notch.

Holotype, male, labeled Nova Teutonia, Santa Caterina, Brazil, Nov. 10, 1953 (F. Plaumann). Allotype, female, same data as holotype except October 15, 1952. Paratypes: 1 ♀, same data as holotype except October 20, 1950; 1 ♀, same data as holotype except 4-28-1950; 1 ♀, Nova Teutonia, Brasilien, 27° 11' B. 52° 23' L., 8-11-1939 (Fritz Plaumann). Holotype, allotype and paratypes in the North Carolina State University collection. Paratype in the DeLong collection.

This species is placed in the subgenus *Marganalana* and is related to *aneta*.

Gypona venella n. sp.

(Figs. 31-35)

Length of male 10 mm, female unknown. Crown roundly produced, three-fifths as long at middle as basal width between eyes. Color pale yellow with darker yellow markings. Crown pronotum and scutellum mostly dark bright yellow, forewings pale yellow with darker yellow veins.

Male genitalia with plates more than twice as long as median width, apices rounded. Style with blade serrate on ventral margin at more than half its length, apical third slightly narrowed curved dorsally, apex blunt, rounded. Aedeagal shaft with two short, proximal, apical teeth; a subapical process arises dorsally on each lateral margin, each process is composed of a basal spur extending more than two-thirds distance to base of shaft, and a caudad spur extending beyond apex of shaft. Pygofer narrow and bluntly rounded at apex, a slight notch on dorsal surface near caudal portion.

Holotype, male, Antigua, Guatemala, IX-1959, N. L. H. Krauss, in the U.S. National Museum.

Placed in the subgenus *Marganalana* and is related to *signoreti*.

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