

**STUDIES OF THE GYPONINAE (HOMOPTERA:
CICADELLIDAE) FOURTEEN NEW SPECIES OF
CENTRAL AND SOUTH AMERICA GYPONA¹**

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ABSTRACT

Fourteen species of *Gypona* (Homoptera:Cicadellidae) are described. Four species, *G. berela* n.sp., *G. axena* n.sp., *G. nigrena* n.sp., and *G. tascoi* n.sp. are placed in the subgenus *Gypona*. The other ten species, *G. aliqua* n.sp., *G. sarisa* n.sp., *G. adora* n.sp., *G. nexa* n.sp., *G. aneta* n.sp., *G. crocea* n.sp., *G. nasua* n.sp., *G. rustica* n.sp., *G. evadera* n.sp. and *G. costana* n.sp. are placed in the subgenus *Marganalana*.

A revisional study of the species of *Gypona* was published by DeLong and Freytag (1964) in which 140 species were treated and placed in four subgenera. A subsequent publication by DeLong and Martinson (1972) added another 14 species. Four new species occurring in Panama were described by DeLong and Kolbe in 1974. The same authors described six new species from South America (1975). Fourteen more new species are described in this manuscript. Four species are placed in the subgenus *Gypona*. The other ten species are placed in the subgenus *Marganalana*.

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

Length of male 8 mm. Crown broadly curved one half as long at middle as basal width between eyes. Color, face pale yellow, crown black with yellow spots surrounding ocelli, median line broadly yellow and a transverse yellow area at base on median two-thirds of crown. Pronotum yellow, a black area near lateral margin behind each eye. Scutellum yellow, black coloration along basal margin. Forewings yellow, dark brown veins on clavus corium and apical portion.

Male genitalia with plates three times as long as median width, apical portion narrowed, apex pointed. Style slender, elongate, apex pointed on inner margin; median portion slightly convex ventrally and serrate. Aedeagus with a pair of slender apical processes more than half as long as shaft extending basad with apices curved laterally. Pygofer with bluntly pointed apex.

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Holotype male: Colombia, Cnd., E. Calegio, 23 May 1946. Paratype: one specimen, without abdomen, from Colombia Cnd., Fusagasuga, 8 May 1964. Both types in the U. S. National Museum collection.

Gypona axena n.sp.

(Figs. 6-10)

Length of male 9 mm. Crown broadly rounded more than half as long at middle as width at base between eyes. Color, crown black with white spots surrounding ocelli and a small white spot posterior to each ocellus at base. Pronotum black, a narrow lateral white margin, a median white stripe not reaching to base of crown and a shorter diagonal white spot on each side of median stripe at base. Scutellum mostly black with white margins and a white apex. Forewings yellowish subhyaline, veins pale brown.

Male genitalia with plates more than three times as long as median width, apices narrowed, rounded. Style with blade bluntly pointed, enlarged ventrally at one-third length of blade, with a short, blunt ventral protrusion which is serrate on ventral margin. Aedeagus narrow, a pair of slender apical processes one-half length of shaft extending basad and laterally. Pygofer narrow and rounded apically.

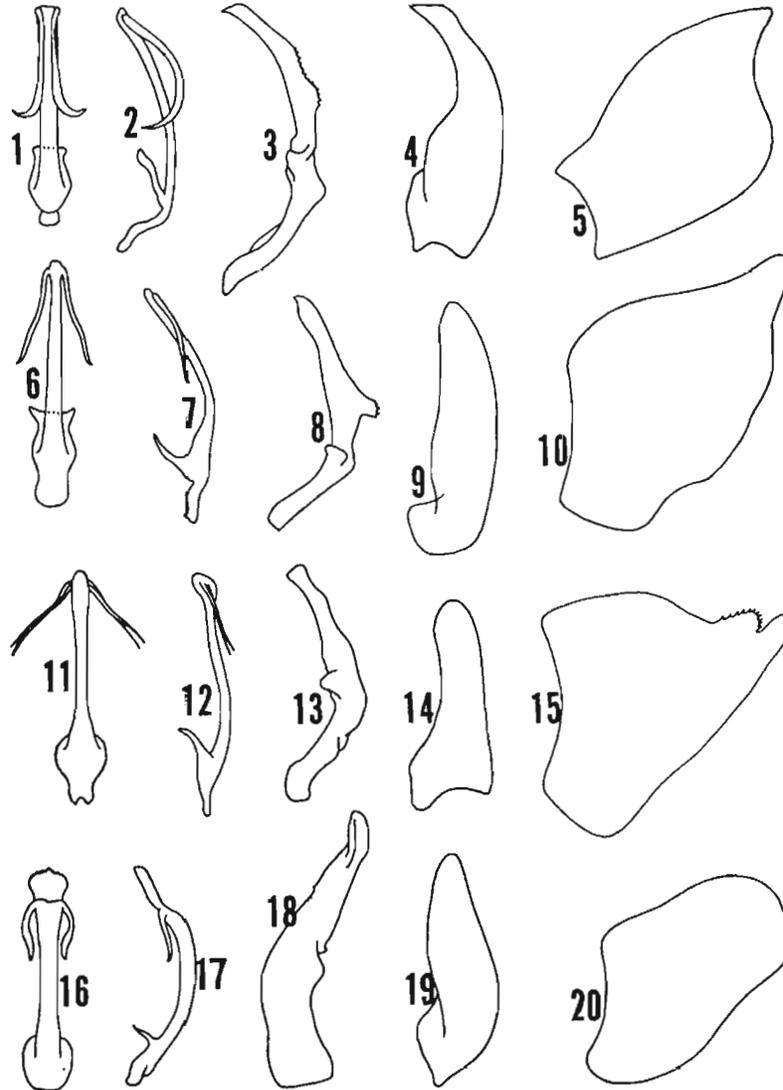
Holotype male: Colombia, Bay Sogamosa 29 May 1964. Paratype: a second specimen without abdomen bears the same data. Holotype and paratype in the U. S. National Museum Collection.

Gypona nigrena n.sp.

(Figs. 11-15)

Length of male 8.5 mm, female 10.5 mm. Crown broadly rounded more than twice as wide at base between eyes as median length. Color of male face yellow crown black anterior margin brown, ocelli yellow. Pronotum black, marginal elongate spots yellow. Scutellum black, apical area pale brown. Forewings brownish subhyaline, costal margins broadly yellowish. Female, crown yellow, ocelli red, two small round black spots at base, one posterior to each ocellus. Pronotum yellow, discal portion pale brown, a small black spot behind each eye and short vermiculate brown markings across anterior margin. Scutellum yellowish with pale brown coloration. Forewings subhyaline, veins yellow.

Male genitalia with plates three times as long as median width, apices rounded. Style elongate, narrow apex truncate, a short, broad, blunt tooth on inner base of blade. Aedeagus with two pairs of subapical slender processes which are half as long as shaft, contiguous and extend baso-laterally. Pygofer with two short, blunt, rounded processes on dorso-apical margin. The outer process is slightly longer, the proximal process is serrate.



FIGS. 1-5. *Gypona berela* n.sp. 1. aedeagus ventrally. 2. aedeagus laterally. 3. style laterally. 4. plate ventrally. 5. pygofer laterally. FIGS. 6-10. *Gypona axena* n.sp. 6. aedeagus ventrally. 7. aedeagus laterally. 8. style laterally. 9. plate ventrally. 10. pygofer laterally. FIGS. 11-15. *Gypona nigrena* n.sp. 11. aedeagus ventrally. 12. aedeagus laterally. 13. style laterally. 14. plate ventrally. 15. pygofer laterally. FIGS. 16-20. *Gypona tascoi* n.sp. 16. aedeagus ventrally. 17. aedeagus laterally. 18. style laterally. 19. plate ventrally. 20. pygofer laterally.

Female genitalia with lateral angles of seventh sternum produced and rounded to posterior margin which is deeply concavely excavated one-third distance to base each side of a pair of median proximal teeth; teeth rounded at apex and produced to the length of lateral angles.

Holotype male and female allotype Callanga, Peru, without specific data, in the U.S. National Museum.

The female apparently was collected with the male but may prove to belong to another species.

Gypona tascoi n.sp.

(Figs. 16-20)

Length of male 9 mm. Crown more than half as long at middle at basal width between eyes. Color, crown black with yellowish spots surrounding ocelli; four small yellow spots, two at base near eyes and two anterior to eyes but distant from margin. Pronotum smoky yellow, lateral margins conspicuously yellow, with a longitudinal black band between marginal yellow strip and discal area. Scutellum black with a yellow spot in basal and apical angles. Forewings smoky yellow, veins black.

Male genitalia with plates elongate, narrowed and rounded at apices. Style broadened and truncate at apex. Aedeagus with apex broad, blunt, a pair of subapical processes about one-fourth the length of shaft arise laterally and subapically at four-fifths length of shaft and extend basad. Pygofer with apex broadly rounded.

Holotype male: Taxco, Mexico 8-22-36 W. E. Stone in the U. S. National Museum.

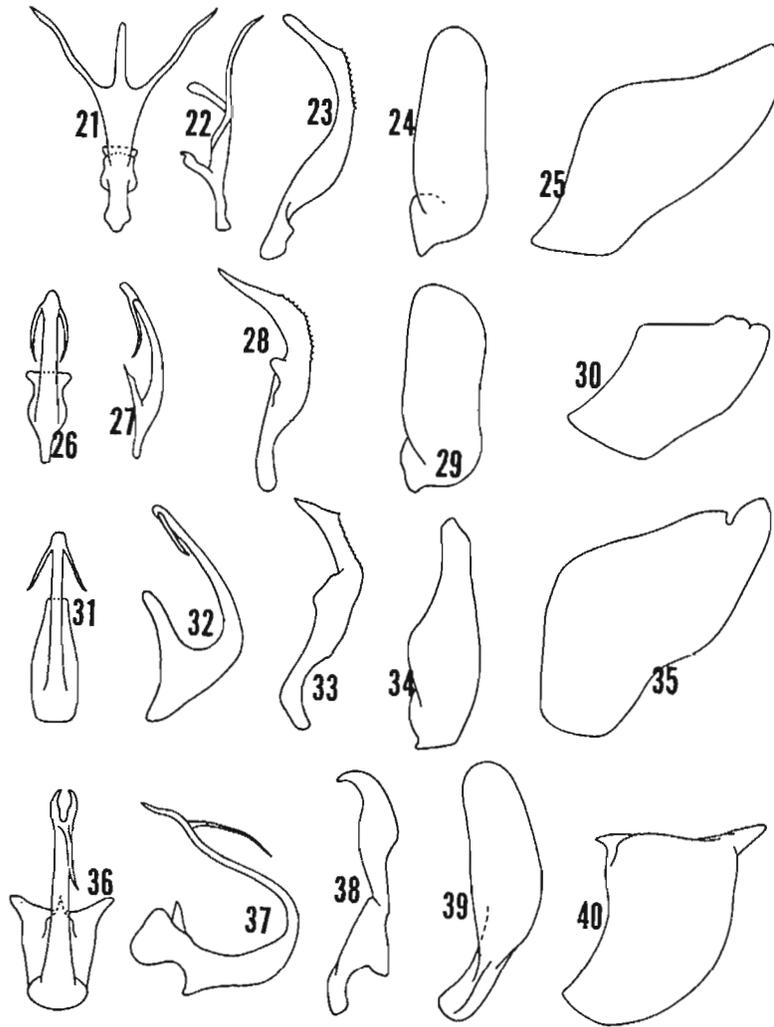
This leafhopper resembles *melanota* in form and general appearance but can be separated by the male genital structures as illustrated.

Gypona aliqua n.sp.

(Figs. 21-25)

Length of male 7.5 mm, female 7.5 mm. Crown broadly rounded half as long at middle as width at base between eyes. Color golden yellow tinged with green without definite markings.

Male genitalia with plates two and one-half times as long as wide, apices rounded. Style with blade slightly broadened on basal half, apical half narrower, concavely rounded on dorsal margin of apical half, ventral margin serrate, apical fourth bent dorsally, apex blunt. Aedeagal shaft broadened ventrally at apex with a median slender projecting process one-third as long as shaft, bent dorsally, and a pair of apical processes almost as long as shaft, arising from outer margins of widened apex and extending apically and laterally. Pygofer with apex narrow, blunt.



FIGS. 21-25. *Gypona aliqua* n.sp. 21. aedeagus ventrally. 22. aedeagus laterally. 23. style laterally. 24. plate ventrally. 25. pygofer laterally. FIGS. 26-30. *Gypona sarisa* n.sp. 26. aedeagus ventrally. 27. aedeagus laterally. 28. style laterally. 29. plate ventrally. 30. pygofer laterally. FIGS. 31-35. *Gypona odora* n.sp. 31. aedeagus ventrally. 32. aedeagus laterally. 33. style laterally. 34. plate ventrally. 35. pygofer laterally. FIGS. 36-40. *Gypona nexa* n.sp. 36. aedeagus ventrally. 37. aedeagus laterally. 38. style laterally. 39. plate ventrally. 40. pygofer laterally.

Female seventh sternum with lateral angles broadly rounded to posterior margin which is shallowly broadly excavated each side of a median broad, slightly produced lobe.

Holotype male San Salvador, El Salvador, May 4, 1958, O. L. Cartwright. Allotype female: San Isidro Corona, Dom., Costa Rica, May 1928 (J. F. Tristan Coll). Paratypes: 2 ♀, same data as allotype; 4 ♀, San Pedro de Montes de Oca, C. R., #668 (C. H. Ballou), 1 is 5-26-34, 1 is on *Eucalyptus* Dec. 21, 1935, one on *Zapotilla* Nov. 23, 1935, and one on *Hamelia erecta* Nov. 23, 1935. Holotype, allotype and paratype in the U. S. National Museum. Paratype in the DeLong Collection.

The female specimens from Costa Rica are referred to this species. No Costa Rican males are available.

Gypona sarisa n.sp.

(Figs. 26-30)

Length of male 8.5 mm. Crown more than half as long at middle as width at base, between eyes. Ocelli nearer median line than distance to proximal eye, margin with deep striae. Color, golden yellow, apical cells smoky.

Male genitalia with plates three times as long as median width, apices broadly rounded. Style with blade curving dorsally on apical fourth, apex sharply pointed. Ventral margin of median portion of blade serrate. Aedeagal shaft blunt, rounded at apex, a pair of subapical processes, more than one-third length of shaft arising near apex and extending basad. Pygofer with apex blunt and notched.

Holotype male: Yepocapa, Guatemala, May 1948, H. T. Dalmat in the U. S. National Museum Collection.

Gypona odora n.sp.

(Figs. 31-35)

Length of male 7 mm. Crown broadly rounded more than twice as wide at base between eyes than median length. Ocelli closer to median line than to proximal eye. Color golden yellow, claval area of forewing smoky. Veins on disc of forewing smoky extending to cross veins of apical cells. Anterior margins of apical cells smoky.

Male genitalia with plates narrowing on apical third, apices blunt. Style with apical third of blade triangular, pointed, basal half serrated on ventral margin. Aedeagus with shaft slender, blunt at apex bearing two subapical processes, one-fourth length of shaft which extend laterobasad. Pygofer with apex narrow, blunt, notched subapically.

Holotype male: Sao Paulo, Brazil V-1961 NLH Krauss in the U. S. National Museum Collection.

Gypona nexa n.sp.
(Figs. 36-40)

Length of male 11 mm. Crown not quite twice as wide at base between eyes as median length. Ocelli nearer to median line than to proximal eye, margin thin. Color dull yellow. Forewings with veins pale brown.

Male genitalia with plates three times as long as median width, apices rounded. Style with blade narrow at base, broadened at middle, apical portion narrowed, curved dorsally, apex bluntly pointed. Aedeagal shaft deeply notched at apex, bearing a slender process about one-third length of shaft arising basad to notch on ventral margin and extending basad. Pygofer with apex broadly rounded.

Holotype male: Corupa S. Cath., Brazil, II 1930 Hansa Humbolt in the North Carolina State University Collection.

Gypona aneta n.sp.
(Figs. 41-45)

Length of male 8.5 mm. Crown produced, broadly rounded, one and one-half times as wide at base between eyes as median length. Color, entire body yellow, forewings tinted with green.

Male genitalia with plates elongate, five times as long as median width, apices bluntly pointed, style elongate, slender, apex curved dorsally, tip bluntly pointed. Aedeagus broad at base, tapering to a slender elongated apex (lateral view). In ventral view the apex is cleft about one-third distance to base, forming two parallel apical processes. Pygofer with apex narrowed and rounded.

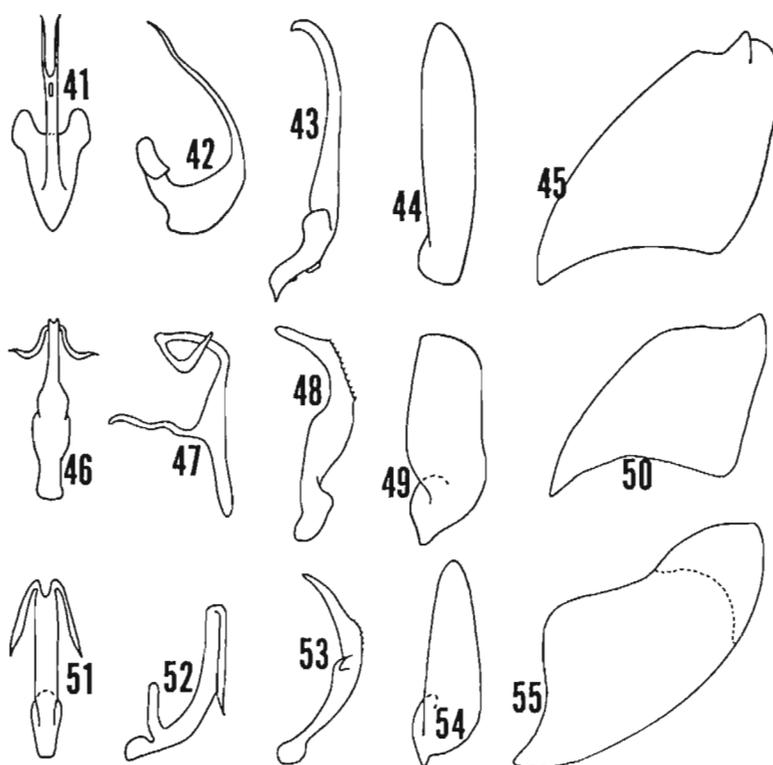
Holotype male: Chapada, Brazil, May, in the U. S. National Museum Collection.

Gypona crocea n.sp.
(Figs. 46-50)

Length of male 7 mm. Crown scarcely produced, broadly rounded, about half as long at middle as width at base between eyes. Color, face pale yellow. Crown, pronotum and scutellum golden yellow. Forewings golden yellow, appendix area smoky.

Male genitalia with plates short and broad, twice as long as median width, apices broad, almost truncate. Style with blade concavely rounded and narrowed on apical half with ventral margin serrate; apical fourth bent dorsally, slender, apex bluntly pointed. Aedeagus with shaft slender apically, a pair of apical processes, one third length of shaft extending basad and laterad. Pygofer with apex blunt, rounded.

Holotype male: Tegucigalpa, Honduras, II-15-18, in the U. S. National Museum.



FIGS. 41-45. *Gypona aneta* n.sp. 41. aedeagus ventrally. 42. aedeagus laterally. 43. style laterally. 44. plate ventrally. 45. pygofer laterally. FIGS. 46-50. *Gypona crocea* n.sp. 46. aedeagus ventrally. 47. aedeagus laterally. 48. style laterally. 49. plate ventrally. 50. pygofer laterally. FIGS. 51-55. *Gypona nasua* n.sp. 51. aedeagus ventrally. 52. aedeagus laterally. 53. style laterally. 54. plate ventrally. 55. pygofer laterally.

Gypona nasua n.sp.

(Figs. 51-55)

Length of male 6 mm. Crown broadly rounded, two-fifths as long at middle as basal width between eyes. Color, face yellow, crown, pronotum and scutellum yellow, a round brown spot on pronotum at half its length behind each eye. Forewings pale yellow, subhyaline with four spots on each wing, two at ends of claval veins along commissure and two on disc.

Male genitalia with plates elongate, three times as long as median width, apex narrow, blunt. Style with blade slender, serrate on ventral margin of basal half, apical half tapering to a pointed

apex. Aedeagus notched at apex, an apical process one half length of shaft arising each side of notch and extending basad each side of shaft. Apex of pygofer blunt.

Female genitalia with posterior margin of seventh sternum almost truncate, slightly undulating.

Holotype male: Loreto Missions, Arg. XII-10-1931, A. A. Ogoblin. Allotype female: same data as holotype. Paratypes: 4 ♂, 1 ♀ same data as holotype; 1 ♀, same data except XI-27-1931; 1 ♀, same data except XIII-3-1931. Holotype, allotype and paratypes in the U. S. National Museum, paratypes in the DeLong Collection.

Gypona rustica n.sp.

(Figs. 56-60)

Length of male 8 mm, female unknown. Crown produced, bluntly angled, almost two-thirds as long at middle as basal width between eyes. Color, crown pronotum and scutellum yellow. Pronotum with a round black spot behind each eye, located at half length of pronotum. Forewings yellow, subhyaline, anterior crossvein between sectors, cross veins on caudal portion of wing and spots at apices of claval veins and claval suture, brown.

Male genitalia with plates about three and one half times as long as broad, apices rounded. Style with blade broadened at middle by a rounded hulse on ventral margin, apex bent dorsally, narrow, pointed. Aedeagal shaft narrow in ventral view, apical third bifid, both portions taper to pointed apices; one process is straight, the other is bent at middle. Pygofer with bluntly pointed apex.

Holotype male: Ausitcion, Paraguay, VII-1961, NLH. Krauss, in the U. S. National Museum Collection.

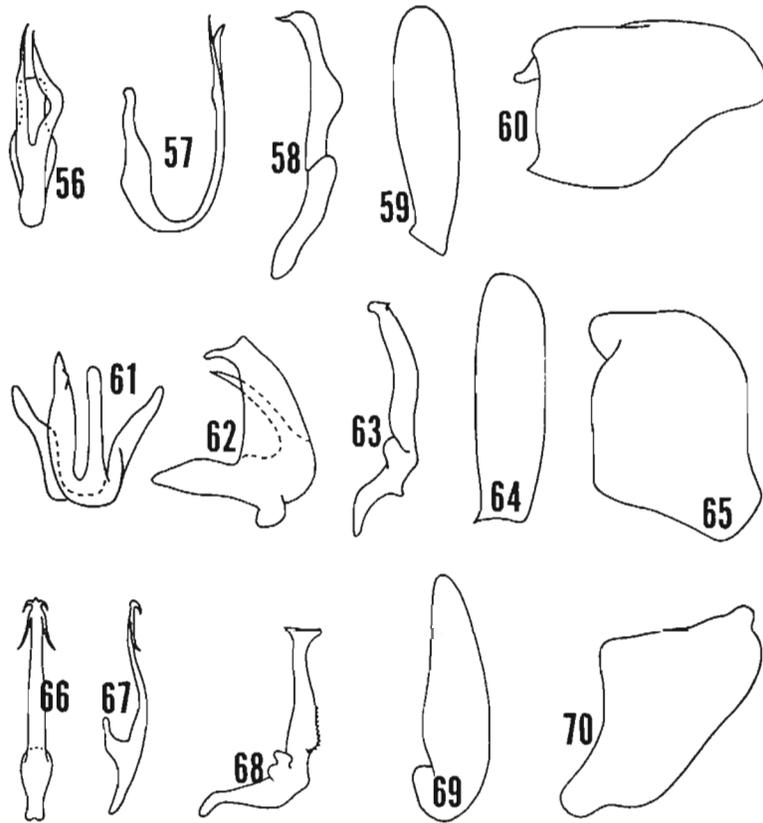
Gypona evadera n.sp.

(Figs. 61-65)

Length of male 7.5 mm, female 8.5 mm. Crown produced, rounded, more than half as long at middle as width at base between eyes. Color, crown yellow, ocelli red. Pronotum yellow with a small round black spot behind each eye at half length of pronotum. Scutellum yellow. Forewing subhyaline, veins yellow.

Male genitalia with plates three times as long as median width, apices rounded. Style with apex of blade produced slightly dorsally tip blunt. Aedeagus in ventral view appearing to have three parts arising from base. In lateral view with shaft short and broad, the apex truncate with a finger-like projection extending dorsad. Pygofer with a rounded protruding process on dorsocaudal margin.

Female genitalia with seventh sternum broadly angularly excavated one-third distance at base.



FIGS. 56-60. *Gypona rustica* n.sp. 56. aedeagus ventrally. 57. aedeagus laterally. 58. style laterally. 59. plate ventrally. 60. pygofer laterally. FIGS. 61-65. *Gypona evadera* n.sp. 61. aedeagus ventrally. 62. aedeagus laterally. 63. style laterally. 64. plate ventrally. 65. pygofer laterally. FIGS. 66-70. *Gypona costana* n.sp. 66. aedeagus ventrally. 67. aedeagus laterally. 68. style laterally. 69. plate ventrally. 70. pygofer laterally.

Holotype male: Corumba, Brazil, May. Allotype female Corumba, Brazil (lowland), March. Paratype male: Chapada, Brazil, August. All types are in the C. F. Baker Collection, U. S. National Museum.

Gypona costana n.sp.

(Figs. 66-70)

Length of male 6.5 mm. Crown broadly rounded half as long at middle as width at base between eyes. Color, face yellow, crown mostly dark brown to black, margins next eyes yellowish and a spot

at base behind each ocellus yellow. Pronotum brown, a large area each side and along lateral margins yellow to pale brown. Scutellum yellow, basal angles brown. Forewings brown, costal margin broadly yellow.

Male genitalia with male plates which are elongate and tapered to narrow, rounded apices. Style with blade serrate on ventral margin near base, apex widened and truncate. Aedeagus with shaft slender, a pair of minute apical processes curved basad and laterally and a pair of short subapical processes, one-fourth length of shaft arising near apex and extending basad and laterad. Pygofer with apex narrowed and rounded.

Holotype male: Brazil sp. Riberão Pires, V-54, NLH Krauss in the U. S. National Museum.

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