

# On the taxonomy of some neotropical species of jumping spiders described by Caporiacco (Araneae, Salticidae)

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**ABSTRACT.** *Pseudattulus incertus* Caporiacco, 1955 is synonymized with *P. kratochvili* Caporiacco, 1947 and the male of this species is redescribed. The genus *Uspachus* Galiano, 1995 is synonymized with *Romitia* Caporiacco, 1947 and the male of its type species, *R. nigra* Caporiacco, 1947, is redescribed. The following new combinations are established for the species formerly included in *Uspachus*: *Romitia albipalpis* (Taczanowski, 1878), *Romitia andina* (Taczanowski, 1878), *Romitia bahiensis* (Galiano, 1995), *Romitia colombiana* (Galiano, 1995), *Romitia juquiaensis* (Galiano, 1995), *Romitia ministerialis* (C.L. Koch, 1846), *Romitia misionensis* (Galiano, 1995) and *Romitia patellaris* (Galiano, 1995). The genus *Pseudamphidraus* Caporiacco, 1947 is synonymized with *Noegus* Simon, 1900 by transfer of its type species, *Noegus niger* (Caporiacco, 1947) **comb. nov.**, whose male is herein redescribed. The species *Pseudamphidraus variegatus* Caporiacco, 1947 and *Marma trifidocarinata* Caporiacco, 1947 are synonymized with *Marma nigratarsis* (Simon, 1900).

**KEY WORDS.** *Marma*; *Noegus*; *Pseudamphidraus*; *Pseudattulus*; *Romitia*; *Uspachus*.

**RESUMO. Sobre a taxonomia de algumas espécies neotropicais de aranhas papa-moscas descritas por Caporiacco (Araneae, Salticidae).** *Pseudattulus incertus* Caporiacco, 1955 é sinonimizada com *P. kratochvili* Caporiacco, 1947 e o macho desta espécie é redescrito. O gênero *Uspachus* Galiano, 1995 é sinonimizado com *Romitia* Caporiacco, 1947 e o macho de sua espécie-tipo, *R. nigra* Caporiacco, 1947, é redescrito. As seguintes combinações novas são estabelecidas para as espécies até o momento incluídas em *Uspachus*: *Romitia albipalpis* (Taczanowski, 1878), *Romitia andina* (Taczanowski, 1878), *Romitia bahiensis* (Galiano, 1995), *Romitia colombiana* (Galiano, 1995), *Romitia juquiaensis* (Galiano, 1995), *Romitia ministerialis* (C.L. Koch, 1846), *Romitia misionensis* (Galiano, 1995) e *Romitia patellaris* (Galiano, 1995). O gênero *Pseudamphidraus* Caporiacco, 1947 é sinonimizado com *Noegus* Simon, 1900 pela transferência de sua espécie-tipo, *Noegus niger* (Caporiacco, 1947) **comb. nov.**, cujo macho é redescrito. As espécies *Pseudamphidraus variegatus* Caporiacco, 1947 e *Marma trifidocarinata* Caporiacco, 1947 são sinonimizadas com *Marma nigratarsis* (Simon, 1900).

**PALAVRAS-CHAVE.** *Marma*; *Noegus*; *Pseudamphidraus*; *Pseudattulus*; *Romitia*; *Uspachus*.

Lodovico di Caporiacco described over 60 species and proposed 10 genera of jumping spiders from the Neotropical Region (CAPORIAMCO 1938, 1947, 1948, 1954, 1955), contributing substantially to the knowledge on neotropical diversity of salticids. His descriptions, however, were very poor and no modern taxonomist has had until now the opportunity to examine type specimens of many of his species. Therefore most of Caporiacco's taxa have remained unrecognizable.

RUIZ & BRESCOVIT (2005) examined the available type specimens of the Venezuelan species described by CAPORIAMCO (1955) and established several taxonomic changes. The present study is a second attempt to clarify the identity of some of Caporiacco's neotropical species. Herein, five new synonymies and nine new combinations in the family Salticidae are reported.

## MATERIAL AND METHODS

The material examined was kindly sent to us by the curator of the Museo Zoologico de "La Specola" (MZLS), Firenze, Dr. Sarah Whitman. The measurements are given in millimeters. The abbreviations used throughout the text are: RTA: retrolateral tibial apophysis, d: dorsal, p: prolateral, r: retrolateral, v: ventral, pr: proximal, di: distal.

### Sitticinae Simon, 1901

#### *Pseudattulus* Caporiacco, 1947

*Pseudattulus* Caporiacco, 1947: 34 (Type species by original designation: *Pseudattulus kratochvili* Caporiacco, 1947); Caporiacco, 1948: 728; Platnick, 2007.

***Pseudattulus kratochvili* Caporiacco, 1947****Figs 1-5**

*Pseudattulus kratochvili* Caporiacco, 1947: 34 (Male lectotype and two male and one female paralectotypes from Espandaur, Cumins Lodge, Guyana, 9.VIII.1936, Romiti *leg.*, designated by Galiano, deposited in MZLS 598, examined); Caporiacco, 1948: 729, figs 162-163; Berdondini & Whitman, 2002: 146; Platnick, 2007.

*Pseudattulus incertus* Caporiacco, 1955: 446, fig. 82 (Female holotype from Maiquetía, Distrito Federal, Venezuela, IX.1948, Marcuzzi *leg.*, deposited in Museo de la Universidad Central de Venezuela, Caracas, number XII-929, examined); Ruiz & Brescovit, 2005: 756; Platnick, 2007 – **Syn. nov.**

*Sitticus cabellensis* Prószyński, 1971: 198, figs 31-39 (Female holotype from Puerto Cabello, Carabobo, Venezuela, E. Simon *leg.*, deposited in Muséum National d'Histoire Naturelle, Paris, not examined; synonymized with *Pseudattulus incertus* Caporiacco by Ruiz & Brescovit 2005).

Redescription. Male (lectotype). Total length: 2.85 (Fig. 1). Carapace brown, 1.98 long, 1.36 wide, 0.88 high (Fig. 2), with a wide stripe of white hairs on borders. Ocular quadrangle 0.88 long. Anterior eye row 1.21 wide, posterior 1.28 wide. Chelicera brown, with no tooth on retromargin and three on promargin (Fig. 3). Endite, labium and sternum brown. Palp brown, with a short tibia and a very elongated RTA, embolus short and curved (Figs 4-5); many white hairs dorsally on all the palpal articles. Legs  $1 > 4 > 2 > 3$ , brown. Length of femur I 1.20, II 0.84, III 0.86, IV 1.34; patella + tibia I 1.70, II 1.12, III 0.92, IV 1.38; metatarsus + tarsus I 1.20, II 0.86, III 0.86, IV 1.14. Spination: femur I d1-1-1, p2di; II = III = IV d1-1-1, p2di, r2di; patella I = II p1; III = IV p1, r1; tibia I v1r-0-1r-1p-2 or v2-0-1r-1p-2; II v1r-1r-2, p1-0-1; III v1p-2di or v2di, p1-1-1, r1-1-1; IV d1rpr-1, v2di, p1-1-1, r1-1-1; metatarsus I = II v2-2; III v2di, p2-2, r1-1-2; IV v1p-1p-2 or v1p-2, p1-1-2, r1-1-2. Abdomen black, with a dorsal scutum. Spinnerets black.

Female. See PRÓSZYŃSKI (1971): 199 (under *Sitticus cabellensis*).

Distribution. Known from Venezuela and Guyana.

Other material examined. None.

Note. The female holotype and the male allotype of *Sitticus cabellensis* Prószyński have been mismatched. The female bears the specific name and is identical to that of *Pseudattulus kratochvili*, hence the synonymy. The male described by Prószyński probably belongs to a new genus.

**“Freyja-group”*****Romitia* Caporiacco, 1947**

*Romitia* Caporiacco, 1947: 32 (Type species by original designation: *Romitia nigra* Caporiacco, 1947); Caporiacco, 1948: 716; Platnick, 2007.

*Uspachus* Galiano, 1995: 122 (Type species by original designation: *Uspachus misionensis* Galiano, 1995); Platnick, 2007 – **Syn. nov.**

Remarks. According to GALIANO (1995), the genus *Uspachus* may be related to *Phiale* C.L. Koch, 1846 and *Pachomius* Peckham & Peckham, 1896, but differs from them mainly by presenting a quadrangular membranous lamella – or simply a distal lamella – near the embolus, on the embolic division of the tegulum (GALIANO 1995: 122, figs 1-2). This structure is also present in the type species of *Romitia*, *R. nigra*, which supports the synonymy. It is possible that the distal lamella in *Romitia* is homologous to the “denticles” or the “tegular projections” present in some species of *Pachomius* (see GALIANO 1994, figs 8-10, 15-17), and that some features delimiting *Romitia*, like the transverse epigynal furrow, although apomorphic for the lineage, can turn *Pachomius* into a paraphyletic cluster, suggesting that both genera should be synonymized in the future.

Note. The new combinations in *Romitia* are established based on Galiano's illustrations (GALIANO 1995). No type has been examined. For a complete list of synonyms and citations of these species, see PLATNICK (2007).

***Romitia nigra* Caporiacco, 1947****Figs 6-9**

*Romitia nigra* Caporiacco, 1947: 32 (Male holotype from Garroway Landing, Potaro, Guyana, 30.III.1936, Romiti *leg.*, deposited in MZLS 599, examined); Caporiacco, 1948: 716, fig. 147; Berdondini & Whitman, 2002: 147; Platnick, 2007.

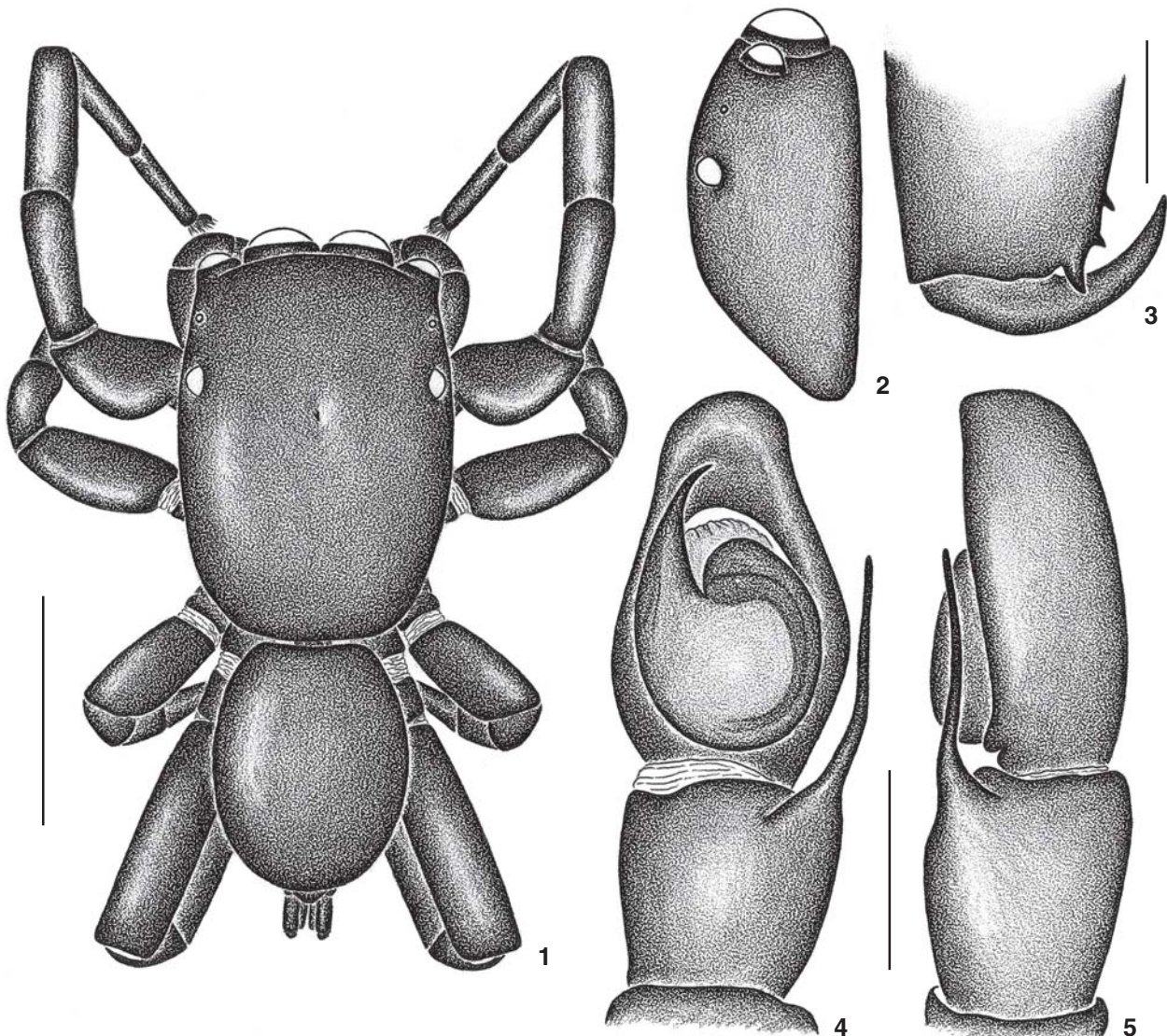
Diagnosis. *Romitia nigra* Caporiacco differs from all the remaining species of the genus by having a distal lamella as long as the embolus that crosses over the embolus of the male palp in ventral view (Fig. 6).

Redescription. Male (holotype). Total length: 4.50. Carapace dark brown, 2.40 long, 1.60 wide, 1.00 high, with a wide stripe of white hairs on borders. Ocular quadrangle 1.20 long. Anterior eye row 1.40 wide, posterior 1.35 wide. Chelicera dark brown, with one tooth on retromargin and two on promargin. Endite dark brown, like that of *Romitia misionensis* (Galiano, 1995; see below) (see GALIANO 1995, fig. 7). Labium and sternum dark brown. Palp dark brown (Figs 6-9), femur dorsally dilated with a granulated field ventrally on the distal extremity as that of *Romitia misionensis* (Galiano, 1995) (see GALIANO 1995, fig. 6); RTA short, embolus dorsal, covered by a ventral distal lamella. Legs  $4 > 1 > 3 > 2$ , dark brown. Length of femur I 1.37, II 1.10, III 1.37, IV 1.50; patella + tibia I 1.75, II 1.30, III 1.35, IV 1.60; metatarsus + tarsus I 1.30, II 1.05, III 1.45, IV 1.67. Spination: femur I d1-1-1, p2di; II d1-1-1, p2di, r1di; III = IV d1-1-1, p2di, r2di; patella I = II p1; III = IV p1, r1; tibia I v2-2-2, p1-0-1; II v1r-2-2, p1-0-1, r1pr or r0; III = IV d1pr, v1p-0-2, p1-1-1, r1-1-1; metatarsus I = II v2-2; III = IV d1, v2-2, p1-0-2, r1-0-2. Abdomen dark brown, with a median dorsal tuft of white hairs close to the spinnerets.

Female. Unknown.

Distribution. Known only from Guyana.

Other material examined. None.



Figures 1-5 *Pseudattulus kratochvili*: (1) male, dorsal view; (2) male carapace, lateral view; (3) male chelicera, anterior view; (4) male palp, ventral view; (5) retrolateral view. Scale lines: (1-2) 1 mm; (3-5) 0.25 mm.

***Romitia albipalpis* (Taczanowski, 1878) comb. nov.**

*Euophrys albipalpis* Taczanowski, 1878: 291.

*Uspachus albipalpis*: Galiano, 1995: 135, figs 17-18, 22, 45-47, 50; Platnick, 2007.

***Romitia andina* (Taczanowski, 1878) comb. nov.**

*Euophrys andina* Taczanowski, 1878: 297.

*Uspachus andinus*: Galiano, 1995: 139, figs 53-54; Platnick, 2007.

***Romitia bahiensis* (Galiano, 1995) comb. nov.**

*Uspachus bahiensis* Galiano, 1995: 138, figs 19-20, 23, 30, 35-36, 49; Platnick, 2007.

***Romitia colombiana* (Galiano, 1995) comb. nov.**

*Uspachus colombianus* Galiano, 1995: 137, figs 11, 39, 41-42; Platnick, 2007.

***Romitia juquiaensis* (Galiano, 1995) comb. nov.**

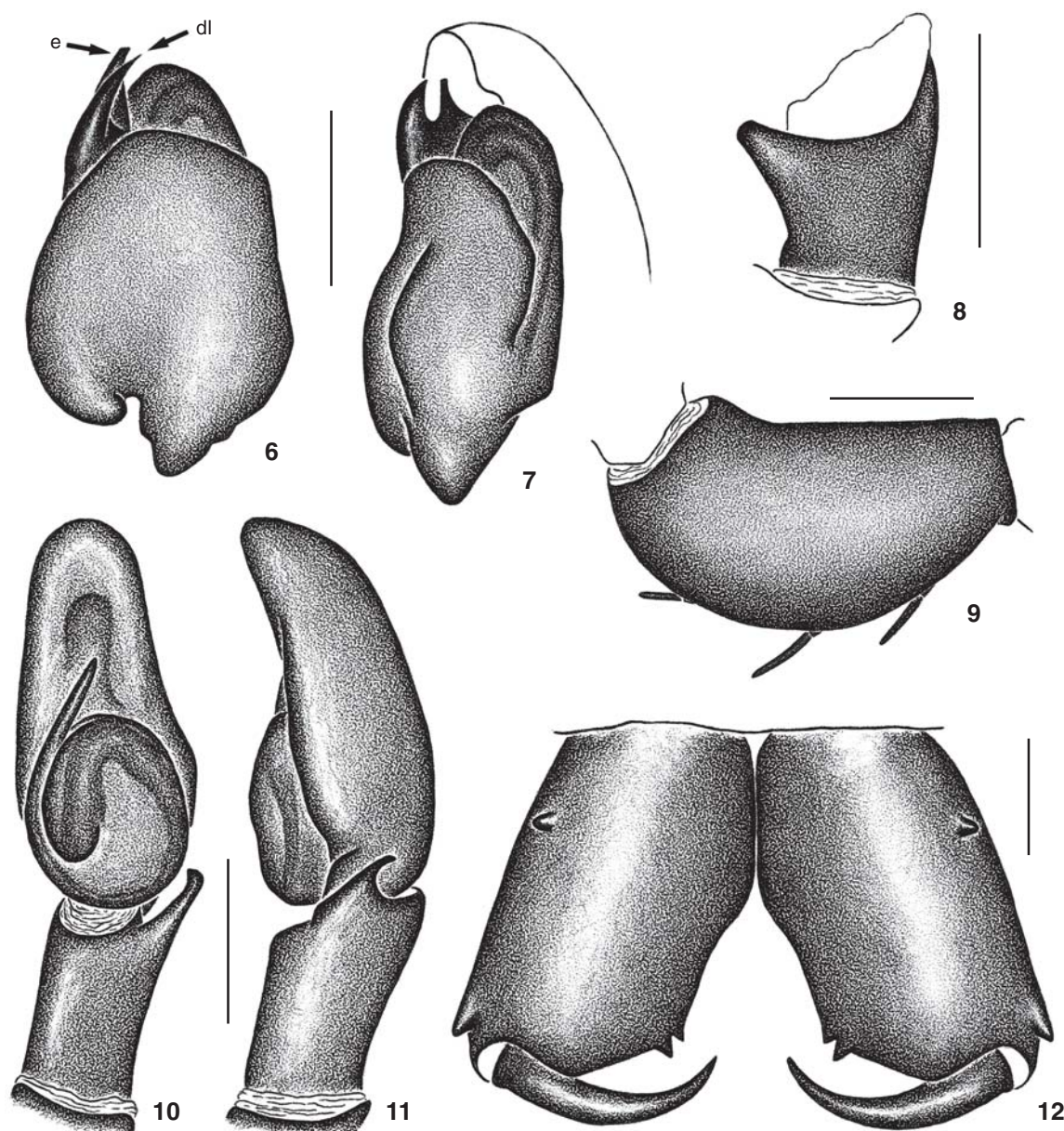
*Uspachus juquiaensis* Galiano, 1995: 138, figs 15-16, 24, 40, 43-44; Platnick, 2007.

***Romitia ministerialis* (C.L. Koch, 1846) comb. nov.**

*Phiale ministerialis* C.L. Koch, 1846: 199, figs 1247.

*Uspachus ministerialis*: Galiano, 1995: 134, figs 12-14, 33-34; Platnick, 2007.





Figures 6-12. (6-9) *Romitia nigra*: (6) male palp, ventral view; (7) ventro-retrolateral view; (8) palpal tibia, retrolateral view; (9) palpal femur, lateral view; (10-12) *Noegus niger*: (10) male palp, ventral view; (11) retrolateral view; (12) male chelicerae, anterior view. Abbreviations: (e) embolus; (dl) distal lamella. Scale lines: 0.25 mm.

***Romitia misionensis* (Galiano, 1995) comb. nov.**

*Uspachus misionensis* Galiano, 1995: 129, figs 1-10, 31-32, 37-38; Platnick, 2007.

***Romitia patellaris* (Galiano, 1995) comb. nov.**

*Uspachus patellaris* Galiano, 1995: 140, figs 21, 25-29, 48, 51-52; Platnick, 2007.

**Amycinae Simon, 1901**

***Noegus* Simon, 1900**

*Noegus* Simon, 1900: 50 (Type species by original designation: *Noegus vulpio* Simon, 1900); Platnick, 2007.

*Beccaria* Caporiacco, 1947: 30 (Type species by original designation: *Beccaria franganilloi* Caporiacco, 1947); Caporiacco, 1948: 703; Galiano, 1982: 423 (syn.).

*Pseudamphidraus* Caporiacco, 1947: 30 (Type species by original designation: *Pseudamphidraus niger* Caporiacco, 1947); Caporiacco, 1948: 700; Platnick, 2007 – **Syn. nov.**

Remarks. The type species of *Pseudamphidraus* Caporiacco, *P. niger* Caporiacco, presents the same dentition as the species included in *Noegus* Simon, with several retromarginal teeth and a pair on the promargin, the synapomorphy of the genus (Galiano, 1968: 345).

### ***Noegus niger* (Caporiacco, 1947) comb. nov.**

Figs 10-12

*Pseudamphidraus niger* Caporiacco, 1947: 30 (Male holotype from Campo V, Demerara, Guyana, XI.1931, Beccari *leg.*, deposited in MZLS 596, examined); Caporiacco, 1948: 700, fig. 124; Berdondini & Whitman, 2002: 147; Platnick, 2007.

Diagnosis. *Noegus niger* (Caporiacco) resembles *N. actinosus* Simon, 1900 by having the tip of the simple RTA projecting dorsally (see GALIANO 1963, tab. 29, fig. 1), but can be distinguished from this species by having two pairs of external, very small mastidia on the chelicerae (Fig. 12).

Redescription. Male (holotype). Total length: 4.50. Carapace dark brown, 2.20 long, 1.75 wide, 1.50 high. Ocular quadrate 1.50 long. Anterior eye row 1.70 wide, posterior 1.55 wide. Chelicera dark brown, with five teeth on retromargin and two on promargin (Fig. 12). Endite, labium and sternum dark brown. Palp dark brown, tegulum globose, embolus long and narrow (Figs 10-11). Legs 1 > 3 = 4 > 2, dark brown; metatarsi and tarsi light brown. Length of femur I 1.85, II 1.55, III 1.75, IV 1.55; patella + tibia I 2.35, II 1.75, III 1.75, IV 1.70; metatarsus + tarsus I 1.65, II 1.40, III 1.55, IV 1.80. Spination: femur I = II = III d1-1-1, p2di, r1di; IV d1-1-1, p1di, r1di; patella I 0; II p1; III = IV p1, r1; tibia I v2-2-2, p1-0-1; II v1r-2-2, p1-1-1; III v1p-0-1p, p1-0-1, r1-1-1; IV v1p-0-1r, p1-0-1, r1-1-1; metatarsus I = II v2-2; III v2-2, p1-0-2, r1-0-2; IV v1p-2, p1-0-2, r1-1-2. Abdomen dark brown, dorsally variegated with dark brown and yellow.

Female. Unknown.

Distribution. Known only from Guyana.

Other material examined. None.

### ***Amycoidea incertae sedis***

#### ***Marma* Simon, 1902**

*Marma* Simon, 1902: 376 (Type species by original designation: *Marma baeri* Simon, 1902); Platnick, 2007.

*Thysema* Mello-Leitão, 1944: 390 [Type species by original designation: *Thysema doriae* Mello-Leitão, 1944 = *Marma nigratarsis* (Simon, 1900)]; Galiano, 1962: 36 (syn.).

*Paralophostica* Soares & Camargo, 1948: 396 [Type species by original designation: *Paralophostica centralis* Soares & Camargo, 1948 = *Marma nigratarsis* (Simon, 1900)]; Galiano, 1962: 36 (syn.).

#### ***Marma nigratarsis* (Simon, 1900)**

*Amphidraus nigratarsis* Simon, 1900: 60; Simon, 1901: 419, fig. 477.

*Marma nigratarsis*: Galiano, 1962: 40, pl. I, figs 6-9, pl. II, figs 4-5; Galiano, 1963: 397, pl. XXVIII, figs 1-2; Galiano, 1981: 12; Platnick, 2007.

*Pseudamphidraus variegatus* Caporiacco, 1947: 30 (Male holotype from Two Mouths, Esequibo, Guyana, 14.VII.1936, Romiti *leg.*, deposited in MZLS 597, examined); Caporiacco, 1948: 700, fig. 125; Berdondini & Whitman, 2002: 149; Platnick, 2007 – **Syn. nov.**

*Marma trifidocarinata* Caporiacco, 1947: 34 (Female holotype from Alto Demerara, Guyana, XII.1931, Beccari *leg.*, deposited in MZLS 549, examined); Caporiacco, 1948: 731, fig. 165; Berdondini & Whitman, 2002: 149; Platnick, 2007 – **Syn. nov.**

Note. For a complete list of synonyms and citations of *Marma nigratarsis* (Simon), see PLATNICK (2007).

Remarks. The synonymies were detected through comparisons among Caporiacco's types, specimens deposited in the collection of Instituto Butantan and the excellent illustrations of *Marma nigratarsis* by GALIANO (1962, tab. 1, figs 6-9; tab. 2, figs 4-5).

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