



ARTÍCULO:

An annotated systematic catalogue, including synonymies and transfers, of Miocene Dominican Republic amber spiders described up until 2005

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Revista Ibérica de Aracnología

ISSN: 1576 - 9518.

Dep. Legal: Z-2656-2000.

Vol. 12, 31-XII-2005

Sección: Artículos y Notas.

Pp: 25 - 52.

Edita:

Grupo Ibérico de Aracnología (GIA)

Grupo de trabajo en Aracnología de la Sociedad Entomológica Aragonesa (SEA)

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Índice, resúmenes, abstracts vols. publicados:

<http://entomologia.rediris.es/sea/publicaciones/ria/index.htm>

Página web GIA:

<http://entomologia.rediris.es/gia>

Página web SEA:

<http://entomologia.rediris.es/sea>

Abstract:

This paper provides a catalogue of all Dominican amber spiders described to date, including all taxonomic and systematic changes, such as new names, transfers, new combinations, new synonymies, etc. It includes all known literature citations to described species. All specimens mentioned in the literature are listed with repository information to produce a dataset of easily accessible material for future workers. In total, the list contains 155 named spider species and 92 genera in 46 families. Nine of these genera and seven families do not contain named species. None of the families, 27% of the genera and all the species are extinct.

Key words: Araneae, fossil, Hispaniola, palaeontology, taxonomy.

Catálogo sistemático comentado de arañas del ámbar Miocénico de la República Dominicana descritas hasta 2005, incluyendo sinonimias y transferencias.

Resumen:

Este catálogo contiene todas las arañas actualmente descritas procedentes de ámbar dominicano. En él se incluyen todos los cambios taxonómicos y sistemáticos como nuevos nombres, transferencias, nuevas combinaciones, nuevas sinonimias, etc. Se han listado todos los ejemplares mencionados en la literatura, incluyendo información sobre la institución de depósito, proporcionando un conjunto de datos que facilitará el trabajo de futuros investigadores. En total, el catálogo contiene 155 especies nominales y 92 géneros incluidos en 46 familias. Nueve de estos géneros y siete familias contienen especies no determinadas. Todas las familias están presentes en la fauna actual, mientras que el 27% de los géneros y todas las especies, se consideran extinguidas..

Palabras clave: Araneae, fósiles, Hispaniola, paleontología, taxonomía.

Introduction

Platnick's (2005) world spider catalogue continues to provide an excellent up-to-date resource for taxonomists working on extant spiders. However, it does not include fossil taxa and no similar resource currently exists for palaeoarachnologists. The last arachnological catalogue to include fossil spiders was Bonnet (1945–1959) and many species were listed by Selden (1993), but the latter author did not include systematic advances (transfers, synonymies, new combinations, etc.) and none of the above authors provided frequency or repository data. Systematic catalogues are essential tools for arachnological research. Frequency of occurrence and repository data are particularly important for palaeontologists, because many species are known from only a single, or very few individuals and it is too often the case that repository data are not clear in the original publications and some even list the wrong holding institution. This is true of many spider holotypes described from Dominican amber. Marusik & Penney (2004) made inroads to this literature deficit by providing a survey of the most common fossil spider family, Theridiidae (comb-footed spiders) in Baltic amber, and Wunderlich (2004: 209–211) provided an extensive list of Baltic amber spider species excluding Theridiidae.

Hispaniola is unique in terms of its known spider fauna, in that more families are recorded from fossil species in Miocene Dominican Republic amber, than are recorded from extant species (Penney & Pérez-Gelabert, 2002; Penney, 2004, 2005a). It is also the region of the world where the amber fauna is most similar to the Recent fauna. The Greater Antilles in their current guise are relatively young geographical features, probably no older than the middle Miocene (Iturralde-Vinent & MacPhee, 1999). Therefore, all on-island lineages forming the Recent fauna must be younger than middle Eocene (Iturralde-Vinent & MacPhee, 1999). During the period of amber-forming resin secretion (15–20 million years ago; Iturralde-Vinent & MacPhee, 1996) Hispaniola was a distinct island, although it may have been connected to Puerto Rico via a narrow neck of land, however this is not certain (Iturralde-Vinent & MacPhee, 1999). The amber was formed in a tropical climate similar to that in the region today (e.g. Poinar & Poinar, 1999), therefore the fossil and Recent faunas are directly comparable (Penney, 1999). The high frequency with which spiders occur as Dominican Republic amber inclusions and their similarity to the Recent fauna makes this a potentially valuable data set for qualitative (e.g. Penney, 1999) and quantitative (e.g. Penney, 2002, 2005^a; Penney & Langan, 2006) palaeoecological investigations.

It is only two decades since Ono (1981) described the first spider preserved in Miocene amber from the Dominican Republic. Subsequently, Dominican Republic amber spiders were described by Schawaller (1981a, 1982, 1984), Wunderlich (1981, 1982, 1986, 1987, 1988, 2004), Reiskind (1989), Wolff (1990) and Penney (2000a,b, 2001, 2005b,c,d). Wunderlich (1986: 64) described the following subfossil spiders preserved in Dominican Republic copal: *Dipoenata praedominicana* (Wunderlich, 1986), *Episinus antecognatus* Wunderlich, 1986 (both Theridiidae) and *Palaeolathys copalis* Wunderlich, 1986 (Dictynidae). The spiders described as *Mysmena dominicana* Wunderlich, 1998 (Mysmenidae) and *Ceratinopsis deformans* (Wunderlich, 1998) (sub *Grammonota*, Linyphiidae) by Wunderlich (1998) and the specimen reported as Archaeidae (Wunderlich, 1999) from Dominican Republic amber are all subfossils preserved in Madagascan copal (Wunderlich, 2004: 39). The undescribed specimen identified as Amaurobiidae in Dominican amber by Schawaller (1981b) is actually preserved in Baltic amber (Wunderlich, 1988) as is the linyphiid *Custodella lamellata* (Wunderlich, 1988) (sub *Lepthyphantes*) (Wunderlich, 2004: 1342). Poinar (1992) reported the families Oecobiidae: Urocteinae and Archaeidae as present in Dominican Republic amber, but they are unknown as fossils from this source.

This paper provides a catalogue of all Dominican amber spiders described to date, including all taxonomic and systematic changes, such as new names, transfers, new combinations, new synonymies, etc. It includes all known literature citations to described species. All specimens mentioned in the literature are listed with repository information, to produce a dataset of easily

accessible material for future workers. In total, the list contains 155 named spider species in Dominican Republic amber, and 92 genera in 46 families. Nine of these genera and seven families do not contain named species. None of the families, 27% of the genera and all the species are extinct.

Systematic catalogue of spiders preserved in Dominican Republic amber

In the following list, the families follow the systematic order of Platnick (2005). The year in italics indicates that the species was mentioned, but neither described nor figured. The page numbers in bold refer to the formal systematic description of the new species. A “†” preceding a genus indicates that it is known only from fossil species; “T” indicates a taxonomic transfer. Any taxa listed in square brackets “[]” are not considered part of the Dominican Republic amber fauna, but are included due to the manner in which they have been mentioned in the literature (see remarks under the relevant taxa). Only references relating to fossil taxa are given, i.e., authorship references for extant genera are provided in the main body of the catalogue, but not in the reference list, these can be easily located using Platnick (2005). Specimen number prefixes relate to the following repositories (see acknowledgements for curators): AMNH, American Museum of Natural History, New York, USA; Do, Staatliches Museum für Naturkunde, Stuttgart, Germany; GPIH, Geological–Palaeontological Institute and Museum of the University of Hamburg, Germany; LL., Manchester Museum, UK (Geology Department); MFNK, Museum für Naturkunde, Karlsruhe, Germany; PCHM, personal collection of H.J. Müllenmeister (Germany); PCJW, private collection of Jörg Wunderlich (Hirschberg-Leutershausen, Germany); PI IA, Natural History Museum, London, UK (Geology Department); PRC, Poinar Research Collection, USA; SMF, Senckenberg Museum, Frankfurt-am-Main, Germany (Arachnology Section); UCMP, University of California Museum of Paleontology, USA.

Suborder MYGALOMORPHAE

A key to families and genera in Dominican Republic amber was provided by Wunderlich (2004: 614).

Family DIPLURIDAE

In synonymy:

Microsteria Wunderlich, 1988 = *Masteria* L. Koch, 1873 (Raven, 2000: 573).

Gen. **Ischnothele** Ausserer, 1875

Transferred to other genera:

I? sp. indet. Schawaller, 1982a, 1984—see **Masteria**

***I?* sp. indet.**

I? sp. indet. Wunderlich, 1988: 33, **44–45**, f. 8–9.

- I?* sp. indet. Eskov & Zonstein, 1990: 326.
I? sp. indet. Dunlop, 1993: 3.

Cited material. Juvenile? female, SMF 38155.

Remarks. The carapace and palpal claw in Wunderlich's figures are much more elongate than those of any extant ischnothelines (Coyle, 1995: 29).

Gen. **Masteria** L. Koch, 1873

- m **sexoculata** Wunderlich, 1988
Microsteria s. Wunderlich, 1988: 33, 47–48, f. 11–19, 704–705 (m).
M. s. Eskov & Zonstein, 1990: 326.
M. s. Poinar, 1992: 230, f. 126.
M. s. Dunlop, 1993: 3, f. 10 [cop. Poinar 1992: f. 126].
M. s. Alayón–García, 1995: 3.
Masteria s. Raven, 2000: 573.
Microsteria s. Penney & Pérez-Gelabert, 2002: 205 (Raven's paper overlooked).
Masteria s. Penney, 2004: 184.
Microsteria s. Wunderlich, 2004: 597.

Type specimen. Male, SMF 38131.

Other cited material. One paratype male, PRC A–10–26.

Remarks. Raven examined the holotype of *M. sexoculata* and was unable to determine the characters proposed by Wunderlich as diagnostic for the genus, thus he synonymized the genus with *Masteria* (Raven, 2000). Wunderlich (2004: 619) doubted Raven's synonymy and provided additional characters in validation of *Microsteria*. Given Raven's expertise with Mygalomorpha, his synonymy is retained, pending a thorough investigation of this taxonomic problem.

Masteria sp. indet.

- Ischnothele?* sp. indet. Schawaller, 1982: 16–18, f. 21–26.
I? sp. indet. Schawaller (?Schawaller).—Schawaller, 1984: 74, f. 2 [cop. Schawaller 1982: f. 25–26].
M. sp. indet. Raven, 1985: 161.
M. sp. indet. Wunderlich, 1988: 45, f. 10 [cop. Schawaller 1982: f. 24].
M. sp. indet. Eskov & Zonstein, 1990: 326.
M. sp. indet. Dunlop, 1993: 3.

Cited material. Juvenile, Do–2247–K–1.

gen. et sp. indet.

gen. et sp. indet. Schawaller, 1981b: 3.

Cited material. Sex not mentioned, Do–1359–K.

Family CYRTAUCHENIIDAE

Gen. **Bolostromus** Ausserer, 1875

- m **destructus** Wunderlich, 1988
B. d. Wunderlich, 1988: 33, 42–43, f. 2–5 (m).
B. d. Eskov & Zonstein, 1990: 326.
B. d. Selden, 1993: 313.
B. d. Dunlop, 1993: 3.
B. d. Penney & Pérez-Gelabert, 2002: 205.

Type and only known specimen. Holotype, male GPIH Nr. 4373. The specimen has one *Arachnolithulus?* sp. Wunderlich (Araneae: Ochyroceratidae) as a syninclusion (Wunderlich, 1988).

[Family PYCNOTHELIDAE]

Remarks. This family is considered a junior synonym of Nemesiidae (Raven, 1985).

Transferred to other families:

gen. et sp. indet. Schawaller, 1981b—See **Barychelidae**

Family MICROSTIGMATIDAE

Gen. †**Parvomygale** Wunderlich, 2004

Type and only known species. *Parvomygale distincta* Wunderlich, 2004, fossil in Miocene Dominican Republic amber.

- m **distincta** Wunderlich, 2004*
P. d. Wunderlich, 2004: 617–618, f. 17–29, phot. 11–12 (m).

Type and only known specimen. Male, PCJW, no number assigned.

Family BARYCHELIDAE

Gen. **Psalistops** Simon, 1889

- m **hispaniolensis** Wunderlich, 1988
P. h. Wunderlich, 1988: 33, 50–52, f. 25–32 (m).
P. h. Eskov & Zonstein, 1990: 326.
Plasistops h. Selden, 1993: 313 (a *lapsus calami*).
Psalistops h. Dunlop, 1993: 3.
P. h. Penney & Pérez-Gelabert, 2002: 205.

Type and only known specimen. Male, SMF 38123.

gen. et sp. indet.

- gen. et sp. indet. Schawaller, 1981b: 3.
 gen. et sp. indet. Wunderlich, 1988: 33, 41 (T juv. from Pycnothelidae); 52–53, f. 35–37.
 gen. et sp. indet. Eskov & Zonstein, 1990: 326.
 gen. et sp. indet. Wunderlich, 2004: 613.

Cited material. Two juveniles: SMF 38115 tentatively assigned to the subfamily Trichopelmatinae Raven, 1985 (= *Trichopelma* Simon, 1888 and *Psalistops*); Do–3268–M.

Remarks. Schawaller (1981b) placed Do–3268–M in the

family Pycnothelidae, considered a junior synonym of Nemesiidae by Raven (1985).

Family THERAPHOSIDAE

Gen. †*Ischnocolinopsis* Wunderlich, 1988

Type and only known species. Ischnocolinopsis acutus Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

- m **acutus** Wunderlich, 1988*
I. a. Wunderlich, 1988: 33, **49–50**, f. 20–24 (m).
I. a. Eskov & Zonstein, 1990: 326.
I. a. Selden, 1993: 313.
I. a. Wunderlich.—Dunlop, 1993: 3, f. 9 [cop. Wunderlich 1988: f. 20–21].
I. a. Penney & Pérez-Gelabert, 2002: 205.

Type and only known specimen. Male, PCJW, eventually to be deposited in SMF (Wunderlich, pers. comm., 2005).

Suborder ARANEOMORPHAE

Family FILISTATIDAE

Gen. *Misionella* Ramírez & Grismado, 1997

- m **didicostae** Penney, 2005
M. d. Penney, 2004: 184 *nomen nudum*.
M. d. Penney, 2005b: **95**, f. 2–5 (m).
M. d. Penney, 2005c: 925–927 f. 1 (m).

Type specimen. Male, AMPP 220.

Other cited material. One male, PRC A–10–255.

Remarks. The paper describing this species was originally due to be published in 2004, hence the citation by Penney (2004) listed above. However, for some reason unknown to the author the paper was rescheduled for publication the following year. The publication of Penney (2005c) identified preserved haemolymph droplets in the holotype. This was featured in the September 2005 issue of *Science* (**309**: 2160) and generated much media interest. The holotype was subsequently figured in an unknown, but substantial number of publications worldwide.

Family SICARIIDAE

Gen. *Loxosceles* Heineken & Lowe, 1835

- m **aculicaput** Wunderlich, 2004
L. a. Wunderlich, 2004: **703–704**, f. 10b–d, phot. 36 (m).

Type and only known specimen. Male, PCJW

F933/DB/AR/LOX.

- m **defecta** Wunderlich, 1988
L. d. Wunderlich, 1988: 34, **69–70**, f. 92–94 (m).
L. d. Selden, 1993: 314.
L. d. Penney & Pérez-Gelabert, 2002: 206.
L. d. Wunderlich, 2004: 703–704.

Type specimen. Male, SMF 38241.

Other cited material. One paratype male, SMF 38241, in the same piece as the holotype.

- m **deformis** Wunderlich, 1988
L. d. Wunderlich, 1988: 34, **68–69**, 70, f. 90 (m).
L. d. Selden, 1993: 314.
L. d. Penney & Pérez-Gelabert, 2002: 206.
L. d. Wunderlich, 2004: 703–704.

Type specimen. Male, SMF 38239.

Other cited material. One exuvium attributed to this species, SMF 38249.

Loxosceles sp. indet.

- L. sp.* indet. Wunderlich, 1988: 34, **70**.
L. sp. indet. Penney, 2001: 988 (syninclusion with *Nops lobatus* [Araneae: Caponiidae]).

Cited material. Three juveniles: SMF 38257, SMF 38265, PRC A–10–129.

Family SCYTODIDAE

Gen. *Scytodes* Latreille, 1804

A key to fossil species in Dominican amber was provided by Wunderlich (1988: 71).

- m **piliformis** Wunderlich, 1988
S. p. Wunderlich, 1988: 34, **71–72**, 73, f. 96–97 (m).
S. p. Selden, 1993: 314.
S. p. Penney & Pérez-Gelabert, 2002: 206.
S. piliformes Wunderlich, 2004: 708 (a *lapsus calami*).

Type and only known specimen. Male, SMF 38236.

- m **planithorax** Wunderlich, 1988
S. p. Wunderlich, 1988: 34, 71, **73–74**, f. 100–104 (m).
S. p. Selden, 1993: 314.
S. p. Penney & Pérez-Gelabert, 2002: 206.
S. p. Wunderlich, 2004: 642, f. j [cop. Wunderlich 1988: f. 101], 708, 711, f. 12h [cop. Wunderlich 1988: f. 101].

Type and only known specimen. Male, SMF 38232.

- m **stridulans** Wunderlich, 1988

- S. s.* Wunderlich, 1988: 34, 71, **72–73**, 75, f. 98–99 (m).
S. s. Selden, 1993: 314.
S. s. Penney & Pérez-Gelabert, 2002: 206.
S. s. Wunderlich, 2004: 708.

Type and only known specimen. Male, SMF 38222.

Scytodes sp. indet.

- S. sp.* indet. Wunderlich, 1986¹: 44, f. 31, 296 [cop. fig. 31].
S. sp. A Wunderlich, 1988¹: 34, **74**, f. 105–106, 713 [cop. Wunderlich 1986: fig. 31].
S. sp. B Wunderlich, 1988²: 34, **74–75**, f. 107, 714.
S. sp. C Wunderlich, 1988³: 34, **75**.

Cited material. ¹ Juvenile male, repository unknown; ² juvenile female, SMF 38281; ³ juvenile? female, SMF 38273.

Remarks. According to Wunderlich (pers. comm., 1996) all the figured and described material from his personal collection was deposited in the Senckenberg Museum, Frankfurt, but the juvenile male was not found by the present author in the museum collection.

gen. et sp. indet.

- gen. et sp. indet. Schawaller, 1981b: 3.
 gen. et sp. indet. Penney, 2004: 187.

Cited material. One specimen, sex not mentioned, Do-1140–K; juvenile, AMPP 234.

Family OCHYRO CERATIDAE

Gen. **Arachnolithulus** Wunderlich, 1988

Type species. *Arachnolithulus pygmaeus* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

Remarks. This genus was first described from fossils in Dominican Republic amber by Wunderlich (1988). A description of the first extant species with comments on web-building behaviour, also from the Dominican Republic is in preparation (G. Hormiga, pers. comm., 2005).

- m **longipes** Wunderlich, 2004
A. l. Wunderlich, 2004: **733–735**, f. 16e–f (m).

Type and only known specimen. Male, Do-3063–E.

- m **pygmaeus** Wunderlich, 1988*
A. p. Wunderlich, 1988: 34, **63–64**, f. 68–74 (m).
A. p. Selden, 1993: 314.
A. p. Penney & Pérez-Gelabert, 2002: 206.
A. p. Wunderlich, 2004: 732–735, f. 16a–d [cop. Wunderlich 1988: f. 68–69, 71, 74].

Type and only known specimen. Male, SMF 38220.

***Arachnolithulus?* sp. indet.**

- A?* sp. indet. Wunderlich, 1988: 34, **64**.

Cited material. One mature? female, GPIH Nr. 4373.

Remarks. The specimen described has the *Bolostromus destructus* holotype (Araneae: Cyrtaucheniidae) as a syninclusion.

Family PHOLCIDAE

Remarks. Description of a fossil species of *Leptopholcus* Simon, 1893 is currently in preparation (B. Huber, pers. comm., 2005).

Gen. **Coryssocnemis** Simon, 1893

- m **velteni** Wunderlich, 2004
 ?*C. v.* Wunderlich, 2004: 169, f. 19, **743**, f. 17n–p (m).

Type and only known specimen. Male, PCJW F934/DB/AR/PHO.

Remarks. This is a very incompletely preserved specimen.

Gen. **Modisimus** Simon, 1893

A key to fossil species in Dominican amber was provided by Wunderlich (1988: 77).

- m **calcar** Wunderlich, 1988
M. c. Wunderlich, 1988: 34, 77, **78–79**, 80, f. 111–116, 715 (m).
M. c. Penney & Pérez-Gelabert, 2002: 206.

Type specimen. Male, SMF 38216.

- m **calcaroides** Wunderlich, 1988
M. c. Wunderlich, 1988: 34, 77, 78, **79–80**, 81, f. 117, 716 (m).
M. c. Penney & Pérez-Gelabert, 2002: 206.

Type specimen. Male, SMF 38218.

Cited material. One paratype male, SMF 38214.

- m **crassifemoralis** Wunderlich, 1988
M. c. Wunderlich, 1988: 34, 77, **80–81**, f. 118–119 (m).
M. c. Penney & Pérez-Gelabert, 2002: 206.

Type and only known specimen. Male, SMF 38228.

- m **oculatus** Wunderlich, 1988
M. o. Wunderlich, 1988: 12, 34, **77–78**, 80, f. 108–110 (m).
M. o. Penney & Pérez-Gelabert, 2002: 206.

Type specimen. Male, SMF 38213.

- m **tuberosus** Wunderlich, 1988
M. t. Wunderlich, 1988: 34, 77, **81**, f. 122 (m).
M. t. Penney & Pérez-Gelabert, 2002: 206.

Type specimen. Male, GPIH.

- f **Modisimus sp. indet.**
M. sp. indet. Wunderlich, 1988: 34, **81**, f. 121.

Cited material. Female, SMF 38203.

Gen. **Pholcophora** Banks, 1896

- m **brevipes** Wunderlich, 1988
P. b. Wunderlich, 1988: 34, **83**, 84, f. 127–130 (m).
P. b. Penney & Pérez-Gelabert, 2002: 206.

Type specimen. Male, SMF 38219.

- m **gracilis** Wunderlich, 1988
P. g. Wunderlich, 1988: 34, **82**, 84, f. 123–126 (m).
P. g. Penney & Pérez-Gelabert, 2002: 206.

Type and only known specimen. Male, SMF 38211.

- m **longicornis** Wunderlich, 1988
P. l. Wunderlich, 1988: 34, 82, **83–84**, f. 131–137 (m).
P. l. Penney & Pérez-Gelabert, 2002: 206.

Type specimen. Male, SMF 38215.

Other cited material. One paratype male, SMF 38212.

Gen. †**Serratochorus** Wunderlich, 1988

Type and only known species. *Serratochorus pygmaeus* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

Remarks. This genus may belong in the “ninetine” clade *sensu* Huber (2000: 9).

- m **pygmaeus** Wunderlich, 1988*
S. p. Wunderlich, 1988: 34, **85**, f. 138–147 (m).
S. p. Huber, 2000: 18.
S. p. Penney & Pérez-Gelabert, 2002: 206.
S. p. Wunderlich, 2004: 641, f. d [cop. Wunderlich 1988: f. 139], 744, f. 17b [cop. Wunderlich 1988: f. 138].

Type and only known specimen. Male, SMF 38212.

gen. et sp. indet.
 gen. et sp. indet.—Schawaller, 1981b: 3.

Cited material. Five specimens, sex not mentioned; Do–448–K, Do–968–K, Do–2032–B, Do–2249–K, Do–3366–M.

Family **CAPONIIDAE**

Gen. **Nops** MacLeay, 1839

In synonymy:

N. segmentatus Wunderlich, 1988 = *N. lobatus* Wunderlich, 1988 (Penney, 2001: 998).

- m **lobatus** Wunderlich, 1988
N. l. Wunderlich, 1988: 34, **65–67**, f. 75–79 (m).
N. segmentatus Wunderlich, 1988: 34, **67**, f. 81–88 (m).
N. sp. indet. Wunderlich, 1988: 34, 68, f. 89, 712.
N. segmentatus Selden, 1993: 314.
N. lobatus Selden, 1993: 314.
N. l. Penney, 2001: 988.
N. l. Penney & Pérez-Gelabert, 2002: 206.
N. l. Wunderlich, 2004: 641, f. a [cop. Wunderlich 1988: f. 77], 677, f. 5b [cop. Wunderlich 1988: f. 77].
N. s. Wunderlich, 2004: 641, f. b [cop. Wunderlich 1988: f. 81], 677, f. 5c [cop. Wunderlich 1988: f. 86].
N. l. Sánchez-Ruiz, 2005: 24, 25.

Type specimen. Male, SMF 38235.

Other cited material. Two males: SMF 38224 (holotype of *N. segmentatus* Wunderlich, 1988), PRC A–10–129; one juvenile, SMF 38313.

Remarks. Wunderlich (2004) made no reference to the synonymy of Penney (2001) but was aware of the latter author’s paper as it is cited elsewhere in Wunderlich (2004).

Family **TETRABLEMMIDAE**

Gen. **Monoblemma** Gertsch, 1941

- m **spinosum** Wunderlich, 1988
M? sp. indet. Wunderlich, 1986: 34.
M? s. Wunderlich, 1988: 34, **61–62**, f. 64–67 (m).
M? s. Selden, 1993: 314.
M? s. Penney & Pérez-Gelabert, 2002: 206.
M? s. Wunderlich, 2004: 726, 728, 730, f. 15a [cop. Wunderlich 1988: f. 64].

Type and only known specimen. Male, SMF 38238.

Family **SEGESTRIIDAE**

Gen. **Ariadna** Audouin, 1827

- m **paucispinosa** Wunderlich, 1988
A. p. Wunderlich, 1988: 33, **53–54**, 55, f. 38–45, 708 (m).
A. p. Penney & Pérez-Gelabert, 2002: 207.
A. p. Wunderlich, 2004: 658.

Type and only known specimen. Male, SMF 38237.

Ariadna? sp. indet.

A? sp. indet. Wunderlich, 1988: 33, **54–55**, f. 709.

A? sp. indet. Wunderlich, 2004: 658.

Cited material. Juvenile? female, SMF 38195.

Family OONOPIDAE

A key to genera in Dominican Republic amber was provided by Wunderlich (2004: 691–692).

Gen. †**Fossilopaea** Wunderlich, 1988

Type species. *Fossilopaea sulci* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

m **sulci** Wunderlich, 1988*

F. s. Wunderlich, 1988: 34, **59**, f. 55–60 (m).

F. s. Penney, 2000a: 344.

F. s. Penney & Pérez-Gelabert, 2002: 207.

F. s. Wunderlich, 2004: 642, f. g [cop. Wunderlich 1988: f. 55].

Type and only known specimen. Male, SMF 38223.

[Gen. **Gamasomorpha** Karsch, 1881]

Transferred to other genera:

G. incerta Wunderlich, 1988—see **Stenoonops**

Gen. **Heteroonops** Dalmas, 1916

f **Heteroonops? sp. indet.**

H? sp. indet. Wunderlich, 1988: 33, **56**.

H? sp. indet. Penney, 2000a: 344.

Cited material. Female, SMF 38425.

Gen. **Oonops** Templeton, 1835

m **seldeni**

O. s. Penney, 2000a: **345**, f. 1, pl. 1 (m).

O. s. Penney & Pérez-Gelabert, 2002: 207.

O. s. Wunderlich, 2004: 691.

Type and only known specimen. Male, BMNH Pal. PIIA 20.

Gen. **Opopaea** Simon, 1891

f **Opopaea? sp. indet.**

O? sp. indet. Wunderlich, 1988: 34, **58**.

O? sp. indet. Penney, 2000a: 344.

Cited material. Female, SMF 38187.

Gen. **Orchestina** Simon, 1882

A key to fossil species in all ambers was provided by Wunderlich (1981: 97).

m **dominicana** Wunderlich, 1981

O. d. Wunderlich, 1981: **104–105**, f. 19–20 (m).

O. d. Wunderlich, 1986: 65, 87, f. 55.

O. d. Wunderlich, 1988: 33, 56, f. 48 [cop. Wunderlich 1981: f. 19].

O. dominicanus Wunderlich, 1988: 57 (a *lapsus calami*).

O. dominicana Penney, 2000a: 348 (transferred females to *Orchestina* sp. indet.).

O. d. Penney & Pérez-Gelabert, 2002: 207.

Type specimen. Male, GPIH Nr. 2525.

Other cited material. Three paratype males: one deposited under the same number as the holotype, SMF 38163, GPIH Nr. 2538; Two males: PRC A–10–7, PCJW no number assigned.

m **tibialis** Wunderlich, 1988

O. t. Wunderlich, 1988: 33, **57**, f. 51–54 (m).

O. t. Penney, 2000a: 344.

O. t. Penney & Pérez-Gelabert, 2002: 207.

Type specimen. Male, SMF 38240.

Other cited material. One paratype male, SMF 38233.

f **O. sp. indet.**

O. dominicana Wunderlich, 1981: **105–106**.

O. d. Wunderlich, 1988: 57.

O. sp. indet. Penney, 2000a: 348.

Cited material. Two females: SMF 38171, SMF 38179.

Gen. **Stenoonops** Simon, 1891

m **incertus** (Wunderlich, 1988)

Gamasomorpha incerta Wunderlich, 1988:34, **60**, f. 61–63 (m).

S. i. Penney, 2000a: 348, f. 2, pl. 2 (gender of epithet not corrected).

S. i. Penney & Pérez-Gelabert, 2002: 207 (gender of epithet not corrected).

S. i. Wunderlich, 2004: 697, f. 8a [cop. Wunderlich 1988: f. 62] (gender of epithet not corrected).

S. incertus Wunderlich, 2004: 693.

Type and only known specimen. Male, SMF 38226.

Family PALPIMANIDAE

Gen. **Otiothops** MacLeay, 1839

Otiothops sp. indet.

O. sp. 1 Wunderlich, 1988: 35, **92–93**, f. 174–175, 723.

O. sp. 2 Wunderlich, 1988: 35, **93**.

O. sp. indet. Penney & Pérez-Gelabert, 2002: 204.

O. sp. indet. Wunderlich, 2004: 758, 798, f. 6 [cop. Wunderlich 1988: f. 175].

Cited material. Three juvenile? females; (a) SMF 38289, (b) SMF 38297, SMF 38305.

gen. et sp. indet.

gen. et sp. indet. Schawaller, 1981b: 3.

Cited material. Sex not mentioned, Do–553–K.

Family MIMETIDAE

Gen. **Mimetus** Hentz, 1832

m **bituberculatus** Wunderlich, 1988

M? b. Wunderlich, 1988: 37, **176–177**, 178, f. 456–464, 747 (m).

M. b. Poinar, 1992: 230, f. 127.

M? b. Penney & Pérez-Gelabert, 2002: 207.

M? b. Wunderlich, 2004: 1250, 1259.

Type specimen. Male, SMF 38242.

Other cited material. One paratype male, SMF 38271.

Remarks. Wunderlich's (1988) reservations regarding the correct placement of this species were based on the high clypeus present in the fossils. I support his reservations for additional reasons. The original description of *Mimetus* was poor by present standards and included the following morphological information: "Eyes eight; legs long, slender, 1243; lingua short, triangular; maxillae long, slender, pointed at tip, inclined over the lingua; mandibulae very long and slender. One species *M. syllepsicus* of a pale green colour varied with black on the cephalothorax and abdomen, tips of the four anterior thighs with a black ring, feet very hairy" (Hentz, 1832); no figures were given. Brignoli (1979) suggested that once the genera of the Mimetidae had been revised many of the described *Mimetus* and *Ero* C.L. Koch, 1836 would have to be transferred to other genera, due to the morphology of their genitalia being significantly dissimilar from the type species, and concluded that *Mimetus* was a "dump-heap of unrelated species" (Brignoli, 1984). The genera have not yet been revised, although Platnick & Shadab (1993) identified a number of synapomorphic characters, such as spigot morphology and particular patterns of femur spination. They also identified possible generic synonyms and dubious species placements, which may contribute to resolving the intra-familial systematics.

The Recent species assigned to *Mimetus* which occur in the West Indies, all belong to the *variegatus*-group *sensu* Brignoli (1984) and possess a short embolus and a strongly modified cymbium without normal spines or denticles, but usually with very distinct enlarged, swollen spines (Brignoli, 1984). The *interfactor*-group *sensu* Brignoli (1984) from North and Central America possess a long embolus (e.g. Shear, 1981) a strongly modified cymbium similar to the *variegatus*-group, without modified setae, but with short normal spines and denticles. The *rapax*-group *sensu* Brignoli (1984), distributed from Mexico to Brazil, has a smaller cymbium and

a long, coiled embolus (Brignoli, 1984).

The fossil specimens have short chelicerae, a relatively short embolus and a strongly modified cymbium lacking modified setae, but with long normal spines. This combination of characters does not fit any of the above species groups. The specimens are retained, as placed by Wunderlich (1988) pending a revision of the mimetid genera.

Mimetus? sp. indet.

M? sp. indet. Wunderlich, 1988: 37, **178**, f. 748.

M? sp. indet. Wunderlich, 2004: 1259.

Cited material. Four separate juvenile females, and seven small spiderlings, leg parts, one exuvium, web and silk threads all in the same piece of amber.

Remarks. According to Wunderlich (pers. comm., 1996) all the figured and described material from his personal collection was deposited in the Senckenberg Museum, Frankfurt, but these specimens were not found by the present author in the museum collection.

gen. et sp. indet.

gen. et sp. indet. Penney, 2004: 187.

Cited material. Juvenile, AMPP 231.

Family OECOBIIDAE

Gen. **Oecobius** Lucas, 1846

mf **piliformis** Wunderlich, 1988

O. p. Wunderlich, 1988: 35, **86–87**, f. 148–156, 722 (m).

O. p. Penney & Pérez-Gelabert, 2002: 207.

Type specimen. Male, SMF 38225.

Other cited material. One paratype male, SMF 38234.

Remarks. The female of this species (PRC) remains to be formally described.

gen. et sp. indet.

gen. et sp. indet. Schawaller, 1981b: 3.

Cited material. Sex not mentioned, Do–3361–M.

Family HERSILIIDAE

Gen. **Prototama** Petrunkevitch, 1963

Type species. †*Prototama succinea* Petrunkevitch, 1971 by monotypy, fossil in Miocene–Oligocene Mexican amber.

Remarks. Penney (in press) considered this genus a senior synonym of the extant genus *Neotama* Baehr & Baehr, 1993.

- m **maior** Wunderlich, 1988
Tama m. Wunderlich, 1988: 35, **90–91**, f. 172–173 (m).
T. m. Penney & Pérez-Gelabert, 2002: 207.
Fictotama m. Wunderlich, 2004: 816.
P. m. Penney, in press.

Type and only known specimen. Male, SMF 38230.

- m **media** Wunderlich, 1988
Tama m. Wunderlich, 1988: 35, **89–90**, 91, 92, 166, f. 162–168 (m).
T. m. Penney & Pérez-Gelabert, 2002: 207.
Fictotama m. Wunderlich, 2004: 816.
P. m. Penney, in press.

Type and only known specimen. Male, SMF 38298.

Remarks. This specimen has the *Achaearanea extincta* Wunderlich, 1988 holotype (Araneae: Theridiidae) as a syninclusion.

- m **minor** Wunderlich, 1987
Tama sp. indet. Wunderlich, 1986: 44, f. 299.
T. m. Wunderlich, 1987: **93–96**, f. 1–4 (m).
T. m. Wunderlich, 1988: 12, 35, 88, 89, 91, f. 157–161, 721 (m) [all cop. Wunderlich 1987: f. 1–4, except f. 721 cop. Wunderlich 1986: f. 299].
T. m. Penney & Pérez-Gelabert, 2002: 207.
Fictotama m. Wunderlich, 2004: 816.
P. m. Penney, in press.

Type specimen. Male, SMF 38231.

Other cited material. Two paratypes: male, SMF 38227; mature? female, GPIH Nr. 2545.

Remarks. Wunderlich (2004) placed this species tentatively in *Fictotama* but did not explain his reservations.

Prototama sp. indet.

- Tama* sp. indet. Schawaller, 1981a: **3–7**, f. 1–6.
T. sp. indet. Wunderlich, 1987: 93, 96.
T. sp. indet. Wunderlich, 1988: 35, 89, 91.
Fictotama sp. indet. Wunderlich, 2004: 816.
Prototama sp. indet. Penney, in press.

Cited material. Five juvenile? Females: Do–3307–M–1, Do–3547–M–1, (a) SMF 38337, (b) SMF 38321, (c) SMF 38329; one subadult male exuvium, Do–3583–B–1.

gen. et sp. indet.

- gen. et sp. indet. Penney, 2004: 187.

Cited material. Juvenile, AMPP 235.

[Family DEINOPIDAE]

Remarks. According to Wunderlich (2004: 888) an unnamed American arachnologist saw a member of this

family in the collection of a dealer. However, the specimen was sold and its current whereabouts is unknown.

Family ULOBORIDAE

Gen. **Miagrammopes** O.P.-Cambridge, 1869

- mf **dominicanus** Wunderlich, 2004
M. sp. indet.—Schawaller, 1982: **11–13**, f. 10–20 (j).
M. sp. indet.—Wunderlich, 1988: 35, **94–95**, f. 176–180 (j).
M. sp. indet.—Selden, 1993: 317.
M. sp. indet.—Poinar & Poinar, 1999: 75, f. 74 (?f).
M. sp. indet.—Penney & Pérez-Gelabert, 2002: 204.
M. d. Wunderlich, 2004: 266, **875–877**, 886, f. 50–55, phot. 110–112 (m).

Type specimen. Male, PCJW F104/DB/AR/ULO

Other cited material. Two paratype males: MFNK no. A66, GPIUH; one paratype juvenile PCJW F105/DB/AR/ULO; four juveniles: PRC A–10–44, Do–3342–M–1, female SMF 38328, male, PCJW no number assigned; one mature? female, Do–3342–M.

Miagrammopes sp. indet.

- M. sp. indet.*—Penney, 2001: **989**, pl. 1 f. 1–3, f. 1 (j).
M. sp. indet.—Penney & Pérez-Gelabert, 2002: 204.

Cited material. Juvenile, PRC A–10–124.

Remarks. Specimen PRC A–10–124, described by Penney (2001) has one Araneae: Pholcidae: *Modisimus* sp. syninclusion and differs from *M. dominicanus* in having the carapace almost as wide as long.

Family NESTICIDAE

Gen. †**Hispanonesticus** Wunderlich, 1986

Type and only known species. *Hispanonesticus latopalpus* Wunderlich, 1986, fossil in Miocene Dominican Republic amber.

- m **latopalpus** Wunderlich, 1986*
H. l. Wunderlich, 1986: 93, 94, **128**, 137, f. 260–263 (m).
H. l. Wunderlich, 1988: 36, 126, f. 277–278 (m) [cop. Wunderlich 1986: f. 261 and 263].
H. l. Eskov & Marusik, 1992: 91.
H. l. Penney & Pérez-Gelabert, 2002: 207.
H. l. Wunderlich, 2004: 1241.

Type and only known specimen. Male, SMF 38258.

Family THERIDIIDAE

Remarks. Wunderlich (2004: 228) suggested that the eight specimens listed as Symphytognathidae by Schawaller (1981b: 3) are misidentifications of Theridiidae.

Gen. *Achaearanea* Strand, 1929

- mf **extincta** Wunderlich, 1988
A. e. Wunderlich, 1988: 37, 89, **166–167**, f. 444–448, 742 (mf).
A. e. Penney & Pérez-Gelabert, 2002: 207.

Type specimen. Male, SMF 38298.

Other cited material. Seven paratype males: (a) SMF 38399, (b) SMF 38392, (c) SMF 38377, (d) SMF 38385, (e) SMF 38406, (f) SMF 38358, (h) SMF 38420; one paratype female, (g) SMF 38413; one undescribed male, SMF 38276.

Remarks. The holotype has the *Tama media* holotype (Araneae: Hersiliidae) as a syninclusion. Wunderlich (1988: 166) mentioned that the paratype male (f) was in GPIH. Paratype male (f) was actually found by the present author in the collection of SMF, with the other seven paratypes.

- m **Achaearanea sp. indet.**
A. sp. indet. Wunderlich, 1988: 37, **167**, f. 743.

Cited material. Male, reported as being deposited in the collection of GPIH by Wunderlich (1988) but the specimen was not located in the collection, and is presumed still to be in the possession of Wunderlich (W. Weitschat pers. comm., 1997).

[Gen. *Anelosimus* Simon, 1891]

Transferred to other genera:
A. clypeatus Wunderlich, 1988—see **gen. indet.**

Gen. *Argyrodes* Simon, 1864

- m **crassipatellaris** Wunderlich, 1988
A. sp. indet.—Wunderlich, 1986: 157, f. 26.
A. c. Wunderlich, 1988: 12, 36, **129–130**, f. 279–282, 732 (m).
A. c. Penney, 2001: 989–990, f. 2a (m).
A. c. Penney & Pérez-Gelabert, 2002: 207.
A. c. Penney, 2003: 8, f. 3 (m).
A. c. Penney, 2004: 187.
A. c. Wunderlich, 2004: 166, f. 9 (cop. Wunderlich 1988: f. 279).

Type specimen. Male, SMF 38301.

Other cited material. Three males: PRC A–10–139, PRC A–10–140, AMPP 244.

Remarks. This species was transferred from the *trigonum*

to the *cancellatus* species group *sensu* Exline & Levi (1962) by Penney (2001).

- m **parvipatellaris** Wunderlich, 1988
A. p. Wunderlich, 1988: 36, 129, **130**, f. 283–284 (m).
A. p. Penney & Pérez-Gelabert, 2002: 208.

Type specimen. Male, SMF 38306.

- f **Argyrodes sp. indet.**
A. sp. indet.—Wunderlich, 1988: 36, **130–131**, f. 285–288 (f).

Cited material. Four females: (a) SMF 38245, (b) PCJW no number assigned, (c) SMF 38246, (d) SMF 38260.

Gen. *Chrosiothes* Simon, 1894

A key to fossil species in Dominican amber was provided by Wunderlich (1988: 138).

- mf **biconigerus** Wunderlich, 1988
C. b. Wunderlich, 1988: 36, 138, **140–141**, 142, f. 320–322 (m).
C. b. Penney & Pérez-Gelabert, 2002: 208.

Type specimen. Male, SMF 38388.

Other cited material. Female, SMF 38415 (tentatively assigned to this species by Wunderlich [1988]).

- m **curvispinosus** Wunderlich, 1988
C. c. Wunderlich, 1988: 36, 138, **141–142**, 143, f. 326–327, 746 (m).
C. c. Poinar, 1992: f. 128 [cop. Wunderlich 1988: f. 746].
C. c. Penney & Pérez-Gelabert, 2002: 208.

Type specimen. Male, SMF 38362.

Other cited material. One paratype male, PRC A–10–27.

- mf **emulgatus** Wunderlich, 1988
C. e. Wunderlich, 1988: 11, 21, 36, 138, **139–140**, 141, 155, f. 311–319 (mf).
C. e. Penney & Pérez-Gelabert, 2002: 208.

Type specimen. Male, SMF 38387.

Other cited material. Five paratype males: (a) SMF 38374, (b) SMF 38394, (c) ?PCJW, (d) SMF 38408, (e) SMF 38401; one paratype female, (f) SMF 38368.

Remarks. Wunderlich (1988: 139) stated that paratype males (a) to (c) were in his personal collection and that paratype males (d) and (e) were held in GPIH. However, paratype males (d) and (e) were found by the present author in the collection of SMF.

- m **longispinosus** Wunderlich, 1988

- C. l.* Wunderlich, 1988: 36, 138, **142–143**, 144, f. 328–329 (m).
C. l. Penney & Pérez-Gelabert, 2002: 208.
- Type and only known specimen.* Male, SMF 38381.
- m **monoceros** Wunderlich, 1988
C. m. Wunderlich, 1988: 36, 138, **141**, 144, f. 324–325 (m).
C. m. Penney & Pérez-Gelabert, 2002: 208.
- Type and only known specimen.* Male, SMF 38409.
- m **tumulus** Wunderlich, 1988
C. t. Wunderlich, 1988: 36, 138, **143–144**, f. 330–331a (m).
C. t. Penney & Pérez-Gelabert, 2002: 208.
- Type specimen.* Male, SMF 38402.
- Other cited material.* One paratype male, UCMP.
- m **unicornis** Wunderlich, 1988
C. u. Wunderlich, 1988: 37, 138, 140, 141, **144**, f. 332–335 (m).
C. u. Penney & Pérez-Gelabert, 2002: 208.
- Type specimen.* Male, SMF 38395.
- Other cited material.* One paratype male, SMF 38416.
- Gen. **Chryso** O.P.-Cambridge, 1882
- m **conspicua** Wunderlich, 1988
C? c. Wunderlich, 1988: 37, **162–163**, f. 411–415 (m).
C? c. Penney & Pérez-Gelabert, 2002: 208.
- Type and only known specimen.* Male, SMF 38330.
- m **dubia** Wunderlich, 1988
C? d. Wunderlich, 1988: 37, **163–164**, f. 416–418 (m).
C? d. Penney & Pérez-Gelabert, 2002: 208.
- Type and only known specimen.* Male, SMF 38282.
- Gen. †**Cornutidion** Wunderlich, 1988
- Type and only known species.* *Cornutidion elongatum* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.
- m **elongatum** Wunderlich, 1988*
C. e. Wunderlich, 1988: 37, **174–175**, f. 449–454, 745 (m).
C. e. Penney & Pérez-Gelabert, 2002: 208.
- Type specimen.* Male, SMF 38252.
- Other cited material.* One juvenile ?female, PCJW no number assigned.
- Gen. **Craspedisia** Simon, 1894
- m **Craspedisia sp. indet.**
C. sp. indet. Wunderlich, 1988: 37, **147–148**, f. 343.
- Cited material.* Male, SMF 39004.
- [Gen. **Dipoena** Thorell, 1869]
 Transferred to other genera:
D. pristina Wunderlich, 1986—see **Lasaeola**
D. vicina Wunderlich, 1982—see **Lasaeola**
- Gen. **Dipoenata** Wunderlich, 1988
- Type species.* *Dipoenata stipes* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.
- Remarks.* Although the type species is fossil, seven extant species are known (Platnick, 2005).
- A key to fossil species in Dominican amber was provided by Wunderlich (1988: 155).
- m **alticulata** Wunderlich, 1988
D. a. Wunderlich, 1988: 37, 155, **156–157**, f. 379–389 (m).
D. a. Penney & Pérez-Gelabert, 2002: 208.
- Type specimen.* Male, SMF 38398.
- Other cited material.* Two paratype males: (a) SMF 38391, (b) SMF 38384.
- Remarks.* Wunderlich (1988) stated that one of the paratypes was in GPIH, however, both paratypes were found by the present author in the collection of SMF.
- m **cala** Wunderlich, 1988
D. c. Wunderlich, 1988: 37, 155, **159**, f. 398–399 (m).
D. c. Penney & Pérez-Gelabert, 2002: 208.
- Type specimen.* Male, SMF 38251.
- Other cited material.* One paratype male, SMF 38332.
- m **clypeata** Wunderlich, 1988
D. c. Wunderlich, 1988: 37, 155, **158–159**, 160, 161, f. 390–397 (m).
D. c. Penney & Pérez-Gelabert, 2002: 208.
- Type specimen.* Male, SMF 38343.
- Other cited material.* Two paratype males: (a) SMF 38360, (b) SMF 38378.
- Remarks.* Wunderlich (1988) stated that one of the paratype specimens was deposited in the GPIH, however,

both paratypes were found by the present author in the collection of SMF.

- m **globulus** Wunderlich, 1988
D. g. Wunderlich, 1988: 11, 37, 126, 155, 159, **160–161**, f. 403–408 (m).
D. g. Penney & Pérez-Gelabert, 2002: 208.
D. g. Penney, 2004: 187.

Type specimen. Male, SMF 38351.

Other cited material. Seven paratype males: (b) SMF 38300, (c) SMF 38342, (d) SMF 38350, (e) SMF 38365, (f) SMF 38371, (g) SMF 38364, (h) SMF 38324; one paratype juvenile female? (a) SMF 38351; two additional males: AMPP 232, AMPP 245.

Remarks. Wunderlich (1988) stated that two of the paratype males were deposited in GPIH. All seven paratype males were actually found by the present author in the collection of SMF. The paratype juvenile female? is in the same piece of amber as the holotype.

- m **stipes** Wunderlich, 1988*
D. s. Wunderlich, 1988: 37, 126, 139, 154, **155–156**, 157, f. 373–378 (m).
D. s. Penney & Pérez-Gelabert, 2002: 208.
D. s. Agnarsson, 2004: 480.

Type specimen. Male, SMF 38296.

Other cited material. Ten paratype males: (a) SMF 38285, (b) SMF 38293, (c) SMF 38243, (d) SMF 38253, (e) SMF 38308, (f) SMF 38264, (g) SMF 38277, (h) SMF 38316, (i) SMF 38292, (j) SMF 38284; one paratype male GPIH.

- m **yolandae** Wunderlich, 1988
D. y. Wunderlich, 1988: 37, 155, 158, 159, **160**, f. 400–402 (m).
D. yolande Penney & Pérez-Gelabert, 2002: 208 (a *lapsus calami*).
D. yolandae Penney, 2004: 184.

Type specimen. Male, SMF 38405.

Other cited material. Two paratype males: (a) SMF 38412, (b) SMF 38419.

Remarks. Wunderlich (1988) stated that one of the paratype males was deposited in GPIH, however, both paratypes were found by the present author in SMF.

- f **Dipoenata sp. indet.**
D. sp. indet. Wunderlich, 1988: 37, **162**, f. 409–410 (f).

Cited material. One female, SMF 38370.

Gen. **Episinus** Latreille, 1809

A key to fossil species in Dominican amber was provided by Wunderlich (1988: 131).

- m **brevipalpus** Wunderlich, 1988
E. b. Wunderlich, 1988: 36, 131, **134–135**, f. 293–295 (m).
E. b. Penney & Pérez-Gelabert, 2002: 208.

Type specimen. Male, SMF 38414.

Other cited material. Three paratype males: (a) SMF 38400, (b) SMF 38348, (c) SMF 38356.

- m **cornutus** Wunderlich, 1988
E. c. Wunderlich, 1988: 23, 36, 127, 131, **135–136**, f. 296–301 (m).
E. c. Penney & Pérez-Gelabert, 2002: 208.

Type and only known specimen. Male, SMF 38554.

- mf **praecognatus** Wunderlich, 1982
E. p. Wunderlich, 1982: **34–36**, f. 13–17 (m).
E. p. Wunderlich, 1986: 76, 78, 88, f. 113, 134–136 (m) [all cop. Wunderlich 1982: f. 13, 15–17].
E. p? Wunderlich, 1988: 36, 131, 132, f. 289–291, 733 (f).
E. p. Penney & Pérez-Gelabert, 2002: 208.

Type specimen. Male, SMF 38361.

Other cited material. Seven specimens tentatively assigned to this species by Wunderlich. Four males: (a) SMF 38393, (b) SMF 38386, (c) SMF 38379, (d) SMF 38338; one juvenile male, SMF 38366; one female, SMF 38359; one juvenile female, SMF 38372.

Remarks. Wunderlich (1988: 132) stated that males (a) to (c) were in his personal collection and that male (d) was in GPIH. As a male (d) was found by the present author in the collection of SMF, the earlier reference can probably be ignored. Specimen (d) was not a paratype and may just represent another known, but undescribed specimen. A paratype was described but was later (Wunderlich, 1988) designated as the holotype of *Episinus tuberosus* Wunderlich, 1988.

- m **tuberosus** Wunderlich, 1988
E. praecognatus Wunderlich, 1982: 35.
E. p. Wunderlich, 1986: 76.
E. t. Wunderlich, 1988: 36, 131, 132, **133**, f. 292 (m).
E. t. Penney & Pérez-Gelabert, 2002: 208.

Type and only known specimen. Male, SMF 38407; the former paratype of *Episinus praecognatus* Wunderlich, 1982.

Episinus sp. indet.

E. sp. indet. Penney, 2004: 187.

Cited material. Juvenile, AMPP 226.

Gen. **Lasaeola** Simon, 1881

A key to fossil species in Dominican amber was provided by Wunderlich (1988: 149).

- m **puta** Wunderlich, 1988
L. p. Wunderlich, 1988: 37, 149, **153–154**, f. 366–369 (m).
L. p. Penney & Pérez-Gelabert, 2002: 208.

Type specimen. Male, SMF 38417.

- m **pristina** (Wunderlich, 1986)
Dipoena p. Wunderlich, 1986: 183, f. 108–109 (m).
L. p. Wunderlich, 1988: 37, 150, **152–153**, f. 363–365, 739 (m) [f. 363 cop. Wunderlich 1986: f. 108; f. 365 cop. Wunderlich 1986: f. 109].
L. p. Penney & Pérez-Gelabert, 2002: 208.

Type and only known specimen. Male, SMF 38418.

Remarks. This species was first figured and named by Wunderlich (1986), although he considered it as having been described by Wunderlich (1982). The species described by Wunderlich (1982) was *D. vicina* Wunderlich, 1982. Wunderlich (1988) recognised this mistake and considered the name presented in 1986 as a *nomen nudum*. With regard to the ICZN law of priority, and the fact that it was the species described in 1988 that was named and figured in 1986, the name should be considered as valid from Wunderlich (1986).

- mf **vicina** (Wunderlich, 1982)
Dipoena v. Wunderlich, 1982: **36–39**, f. 19–28 (m).
D. v. Wunderlich, 1986: 48, 49 (authorship accidentally attributed to Wunderlich, 1981).
L. v. Wunderlich, 1988: 11, 16, 20, 21, 37, 150, 152, 153, 176, f. 346–353 (mf) [f. 346–347, 349–352 cop. Wunderlich 1982: f. 21, 24, 19, 23, 26, 20 respectively].
L. v. Penney & Pérez-Gelabert, 2002: 208.

Type specimen. Male, SMF 38347.

Other cited material. Five paratype males: (a) SMF 38375, (b) SMF 38403, (c) SMF 38382, (d) SMF 38396, (e) PCJW no number assigned; two females tentatively assigned to this species by Wunderlich (1988); SMF 38340, SMF 38357.

- m **vicinoides** Wunderlich, 1988
L. v. Wunderlich, 1988: 37, 150, **151–152**, f. 354–362, 740–741 (m).
L. v. Penney & Pérez-Gelabert, 2002: 208.

Type specimen. Male, GPIH Nr. 2535.

Other cited material. One paratype male, SMF 38339; five males tentatively assigned to this species: SMF 38341, SMF 38349, SMF 38376, SMF 38383, SMF 38390; three females tentatively assigned to this species:

SMF 38397, SMF 38404, SMF 38411.

- f **Lasaeola? sp. indet.**
L? sp. indet. Wunderlich, 1988: 37, **154**, f. 370–372 (f).
L. sp. indet. Poinar & Poinar, 1999: 110, f. 114 (m).

Cited material. Female, SMF 38346.

Gen. **Spintharus** Hentz, 1850

- mf **longisoma** Wunderlich, 1988
S. l. Wunderlich, 1988: 36, **136–137**, f. 306–310, 734 (mf).
S. l. Penney & Pérez-Gelabert, 2002: 208.

Type specimen. Male, SMF 38380.

Other cited material. Two paratype females: (a) SMF 38373, (b) SMF 38367.

Gen. **Stemmops** O.P.-Cambridge, 1894

- m **incertus** Wunderlich, 1988
S. i. Wunderlich, 1988: 37, 145, **146**, f. 339–340, 737 (m).
S. i. Penney & Pérez-Gelabert, 2002: 209.

Type and only known specimen. Male, SMF 38314.

- m **prominens** Wunderlich, 1988
S. p. Wunderlich, 1988: 37, **145**, 146, f. 336–338, 736 (m).
S. p. Penney & Pérez-Gelabert, 2002: 209.

Type and only known specimen. Male, SMF 38322.

Gen. **Styposis** Simon, 1894

- mf **pholcoides** Wunderlich, 1988
S. p. Wunderlich, 1988: 37, **146–147**, f. 341–342, 738 (f).
S. p. Penney, 2001: 990, f. 2b–4a (m).
S. p. Penney & Pérez-Gelabert, 2002: 209.

Type specimen. Female, SMF 38244.

Other cited material. One male, PRC A–10–151.

Gen. **Theridion** Walckenaer, 1805

In synonymy:

T. ovale Wunderlich, 1988 (nom. preocc.) = *T. wunderlichi* Penney, 2001

A key to fossil species in Dominican amber was provided by Wunderlich (1988: 168).

- m **contrarium** Wunderlich, 1988
T. c. Wunderlich, 1988: 20, 21, 37, 167, **168–169**,

- f. 421–424 (m).
T. c. Penney & Pérez-Gelabert, 2002: 209.
- Type specimen.* Male, GPIH Nr. 1328.
- Other cited material.* Three paratype males: (a) SMF 38270, (b) SMF 38315, (c) SMF 38331.
- m **erectoides** Wunderlich, 1988
T. e. Wunderlich, 1988: 37, 168, 172, **173**, f. 441–443 (m).
T. e. Penney & Pérez-Gelabert, 2002: 209.
- Type specimen.* Male, SMF 38229.
- Other cited material.* One paratype male, SMF 38290.
- m **erectum** Wunderlich, 1988
T. e. Wunderlich, 1988: 37, 168, **172–173**, 174, f. 438–440 (m).
T. e. Penney & Pérez-Gelabert, 2002: 209.
- Type specimen.* Male, SMF 39005.
- Other cited material.* One paratype male, SMF 38262.
- m **inversum** Wunderlich, 1988
T. i. Wunderlich, 1988: 37, 168, **171–172**, 173, f. 437 (m).
T. i. Penney & Pérez-Gelabert, 2002: 209.
- Type and only known specimen.* Male, SMF 38333.
- mf **variosoma** Wunderlich, 1988
T. v. Wunderlich, 1988: 37, 168, **170–171**, f. 430–436 (mf).
T. v. Penney & Pérez-Gelabert, 2002: 209.
T. v. Penney, 2004: 188.
- Type specimen.* Male, SMF 38221.
- Other cited material.* Ten paratype males: (a) SMF 38283, (b) SMF 38325, (c) SMF 38299, (d) SMF 38291, (e) SMF 38307, (f) SMF 38275, (h) SMF 38267, (i) SMF 38323, (j) SMF 38286, (g) GPIH Nr. 1350; one female, SMF 39002 was tentatively assigned to this species; one male, AMPP 227.
- m **wunderlichi** Penney, 2001
T. ovale Wunderlich, 1988: 12, 37, 168, **169–170**, 171 f. 425–429, 744 (m). Nom. preocc. by the Baltic amber spider †*Theridion ovale* Koch & Berendt, 1854.
T. w. Penney, 2001: 994–995 (replacement name).
T. w. Penney & Pérez-Gelabert, 2002: 209.
T. w. Penney, 2004: 188.
T. w. Marusik & Penney, 2004: 214.
- Type specimen.* Male, SMF 38317.
- Other cited material.* Four paratype males: (a) SMF 38254, (b) SMF 38259, (c) SMF 38278, (d) SMF 38309; one male, AMPP 246.
- Remarks.* Wunderlich (1988: 169) stated that paratype males (a) to (c) were in his personal collection and that paratype male (d) was in GPIH. All paratypes were found by the present author in SMF.
- m **gen. indet. clypeatus** (Wunderlich, 1988)
Anelosimus c. Wunderlich, 1988: 37, **165**, f. 419–420 (m).
 gen. indet. *c.* Penney, 2001: 995, f. 4b–5.
 gen. indet. *c.* Penney & Pérez-Gelabert, 2002: 204.
 gen. indet. *c.* Marusik & Penney, 2004: 216.
- Type and only known specimen.* Male, SMF 38268.
- f **gen. et sp. indet.**
 gen. et sp. indet. Schawaller, 1981b: 3.
 gen. et sp. indet. Wunderlich, 1988: 37, **175**, fig. 455 (f).
- Cited material.* One female, SMF 38425; twenty-five specimens, sex not mentioned; Do–18–K, Do–176–K, Do–246–K, Do–475–K, Do–734–K, Do–790–K, Do–874–K, Do–1057–K, Do–1505–K, Do–1546–K, Do–1573–K, Do–1617–K, Do–2112–K, Do–2373–K, Do–2472–K, Do–2567–B, Do–2793–D, Do–2814–B, Do–2818–D, Do–3034–E, Do–3097–E, Do–3242–M, Do–3289–M, Do–3358–M, Do–3363–M.

Family THERIDIOSOMATIDAE

Gen. †**Palaeoepirotypus** Wunderlich, 1988

Type species. *Palaeoepirotypus iuvenis* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

- m **iuvenis** Wunderlich, 1988*
P. i. Wunderlich, 1988: 36, **115–116**, 117, f. 251–256 (m).
P. i. Penney & Pérez-Gelabert, 2002: 209.
P. i. Wunderlich, 2004: 999.

Type and only known specimen. Male, GPIH Nr. 2830.

- m **iuvenoides** Wunderlich, 1988
P. i. Wunderlich, 1988: 36, 116, **117**, f. 257 (m).
P. i. Penney & Pérez-Gelabert, 2002: 209.
P. i. Wunderlich, 2004: 999.

Type and only known specimen. Male, GPIH Nr. 2831.

Gen. **Theridiosoma** O.P.-Cambridge, 1879

- m **incompletum** Wunderlich, 1988
T. i. Wunderlich, 1988: 21, 36, **114–115**, f. 249–250 (m).
T. i. Penney & Pérez-Gelabert, 2002: 209.
T. i. Wunderlich, 2004: 999.

Type and only known specimen. Male, SMF 38247.

Remarks. Wunderlich (1988) diagnosed this species as follows: “Pedipalpus mit kurzem Cymbium und langem Embolus”. These features do not fit the genus diagnosis of Coddington (1986). The embolic region in the holotype is unclear and the structure of the embolus is not visible. Due to the position of the pedipalp it is not possible to see the median apophysis. The long embolus described by Wunderlich (1988) may be a long embolic apophysis. The cymbium in this specimen is not particularly short and has a small paracymbium not mentioned by Wunderlich (1988). Wunderlich’s (1988: fig. 249) figure is of the left pedipalp, not the right. The leg spination pattern of this species (conspicuous, long, strong promarginal, retromarginal and dorsal macrosetae on the metatarsus of each leg) is not known to be present in any of the extant species (J. Coddington, pers. comm., 1996).

Family SYMPHYTOGNATHIDAE *sensu lato*

gen. et sp. indet.

gen. et sp. indet.—Schawaller, 1981b: 3.

Cited material. Eight specimens, sex not mentioned, Do-381-K, Do-759-K, Do-2032-B, Do-2373-K, Do-3220-B, Do-3242-M, Do-3261-M, Do-3364-M.

Remarks. Wunderlich (2004: 228) suggests that these specimens are misidentifications of Theridiidae.

Family ANAPIDAE

Remarks. Wunderlich (1998) considered the Mysmeninae to be a subfamily of Anapidae. This is not accepted by Platnick (2005), in which Mysmenidae is given family status.

Gen. †**Palaeoanapis** Wunderlich, 1988

Type and only known species. *Palaeoanapis nana* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

m **nana** Wunderlich, 1988

P. n. Wunderlich, 1988: 36, **119**, f. 258–262 (m).

P. n. Selden, 1993: 318.

P. n. Penney & Pérez-Gelabert, 2002: 209.

P. n. Wunderlich, 2004: 1029, 1069, 1104, f. 106–108 [cop. Wunderlich 1988: f. 258–259, 262].

Type and only known specimen. Male, GPIH Nr. 4374.

Family MYSMENIDAE

[Gen. **Mysmena** Simon, 1894]

Remarks. Two male specimens were described as the new species *M. dominicana* by Wunderlich (1998: 364, f. 1–2) as being in Miocene Dominican Republic amber. However, it has since been determined that this resin is

copal from Madagascar (Wunderlich, 2004).

Gen. †**Dominicanopsis** Wunderlich, 2004

Type and only known species. *Dominicanopsis grimaldii* Wunderlich, 2004, fossil in Miocene Dominican Republic amber.

m **grimaldii** Wunderlich, 2004*

D. g. Wunderlich, 2004: 1029, **1078–1080**, 1110, f. 138–141, phot. 178 (m).

Type and only known specimen. Male, AMNH no. DR-8-521.

Remarks. With a maximum body length of only 0.35 mm, this is the smallest spider (fossil or extant) ever described.

Gen. **Mysmenopsis** Simon, 1897

m **lissycolleyae** Penney, 2000

M. l. Penney, 2000a: **349–354**, f. 3, pl. 3 (m).

M. l. Penney & Pérez-Gelabert, 2002: 209.

M. l. Wunderlich, 2004: 1023, 1080, 1110, f. 142 [cop. Penney 2000a: f. 3].

M. lissycolleyae Wunderlich, 2004: 1029 (a *lapsus calami*).

Type specimen. Male, PRC A-10-137.

Other cited material. One paratype male, PRC A-10-138.

Family LINYPHIIDAE

In synonymy:

†*Palaeolinyphia* Wunderlich, 1986 = *Selenyphantes* Gertsch & Davis, 1946 (Platnick, 1993: 239).

[Gen. **Agyneta** Hull, 1911]

Transferred to other genera:

A. bigibber Wunderlich, 1988—see **Meioneta**.

A. fastigata Wunderlich, 1988—see **Meioneta**.

A. separata Wunderlich, 1988—see **Meioneta**.

Remarks. There is substantial disagreement regarding the taxonomic status of the genera *Agyneta* and *Meioneta* (see Platnick, 2005). Wunderlich (2004: 1353) maintains that *Agyneta* should not be regarded as a synonym of *Meioneta*, but the taxa are retained in synonymy here following Platnick (2005).

Gen. **Floricomus** Crosby & Bishop, 1925.

m **fossilis** Penney, 2005

F. f. Penney, 2005d: **60–61**, f. 2–3 (m).

Type and only known specimen. Male, LL. 11629.

[Gen. **Grammonota** Emerton, 1882]

Remarks. A specimen was described as the new species *G. deformans* by Wunderlich (1998: 364, f. 3–4) as being in Miocene Dominican Republic amber. However, it has since been determined that this resin is copal from Madagascar and that the species belongs in the extant genus *Ceratinopsis* (Wunderlich, 2004: 1353).

[Gen. **Lepthyphantes** Menge, 1866]

Remarks. *Custodela lamellata* (Wunderlich, 1988) (sub *Lepthyphantes*) was originally described as being in Dominican Republic amber, but it is actually preserved in Baltic amber (Wunderlich, 2004: 1342).

Gen. **Meioneta** Hull, 1920

A key to fossil species in Dominican amber was provided by Wunderlich (1988: 122).

- m **bigibber** (Wunderlich, 1988)
Agyneta b. Wunderlich, 1988: 36, 122, **123–124**, f. 271–272 (m).
M. b. Penney, 2001: 997.
M. b. Penney & Pérez-Gelabert, 2002: 210.
A. b. Wunderlich, 2004: 1353.

Type and only known specimen. Male, PCJW no number assigned, eventually to be deposited in SMF (Wunderlich, pers. comm., 2005).

Remarks. See under genus *Agyneta* above.

- m **fastigata** (Wunderlich, 1988)
Agyneta f. Wunderlich, 1988: 36, **122–123**, 124, f. 267–270 (m).
M. f. Penney, 2001: 997.
M. f. Penney & Pérez-Gelabert, 2002: 210.
A. f. Wunderlich, 2004: 1353.

Type specimen. Male, SMF 38169.

Other cited material. One male, PRC A–10–51.

Remarks. See under genus *Agyneta* above.

- m **separata** (Wunderlich, 1988)
Agyneta? s. Wunderlich, 1988: 36, 122, **125**, f. 273–276 (m).
M. s. Penney, 2001: 997.
M. s. Penney & Pérez-Gelabert, 2002: 210.
A. s. Wunderlich, 2004: 1353.

Type specimen. Male, SMF 38250.

Other cited material. Two males, A–10–79, in the same piece of amber.

Remarks. See under genus *Agyneta* above.

- f **Meioneta sp. indet.**
Agyneta sp. indet. Wunderlich, 1988: 36, **124**, f.

276a (f).

M. sp. indet. Penney, 2001: 997.

A. sp. indet. Wunderlich, 2004: 1353.

Cited material. Female, PCJW no number assigned.

Gen. **Selenyphantes** Gertsch & Davis, 1946

- m **flagellifera** (Wunderlich, 1986)
Palaeolinyphia f. Wunderlich, 1986: 64, **83–84**, 89, 137, f. 164–168 (m).
P. f. Wunderlich, 1988: 36, 120.
S. f. Penney & Pérez-Gelabert, 2002: 210.
S. flagelliferus Wunderlich, 2004: 1353 (a *lapsus calami*).

Type and only known specimen. Male, GPIH Nr. 2539.

Remarks. Due to Wunderlich's (1986) transfer of the type species of *Selenyphantes* (*S. longispinosus* (O.P.-Cambridge, 1896)) to *Palaeolinyphia*, the latter genus became a junior synonym of *Selenyphantes*. *S. longispinosus* was transferred from its original genus *Lepthyphantes* by Wunderlich (1986) who was apparently unaware that *L. longispinosus* O.P.-Cambridge had been removed from the genus *Lepthyphantes* and established as the type species of *Selenyphantes* (Platnick, 1993: 349).

gen. et sp. indet.

gen. et sp. indet. Schawaller, 1981b: 3.

Cited material. Two specimens, sex not mentioned; Do–2504–B, Do–2722–D.

Family TETRAGNATHIDAE

Gen. **Azilia** Keyserling, 1882

In synonymy:

A. muellenmeisteri Wunderlich, 1988 = *A. hispaniolensis* Wunderlich, 1988

- m **hispaniolensis** Wunderlich, 1988
A. h. Wunderlich, 1988: 35, **102–103**, 104, f. 198–201, 727 (m).
A. muellenmeisteri Wunderlich, 1988: 35, **103–104**, f. 204–205 (m).
A. h. Penney, 2001: 998 (synonymized with *A. muellenmeisteri* Wunderlich, 1988).
A. h. Penney & Pérez-Gelabert, 2002: 210.
A. m. Wunderlich, 2004: 907.
A. h. Wunderlich, 2004: 907.

Type specimen. Male, SMF 38066.

Other cited material. One male, SMF 38137 (the holotype of *A. muellenmeisteri* Wunderlich, 1988).

Remarks. Wunderlich (2004) made no reference to the synonymy of Penney (2001) but was aware of the latter

author's paper as it is cited elsewhere in Wunderlich (2004).

m **Azilia sp. indet.**

A. sp. indet. Wunderlich, 1988: 35, **103**, f. 202–203, 206–207.

A. sp. indet. Wunderlich, 2004: 907.

Cited material. One male; SMF 38327, four juvenile females?, SMF 38319 (in separate amber pieces, but deposited under the same number).

Remarks. Wunderlich (1988) mentioned one male, one juvenile male and four juvenile females, stating that they were all in his personal collection. According to Wunderlich (pers. comm., 1996) all the figured and described material from his personal collection was deposited in SMF. The juvenile male was not found by the present author in the museum collection and is assumed to be specimen PRC A–10–38, as that specimen was studied by Wunderlich prior to his publication (G. Poinar pers. comm., 1996).

Gen. **Cyrtognatha** Keyserling, 1882

m **weitschati** Wunderlich, 1988

C. sp. indet. Wunderlich, 1986: 116.

C. w. Wunderlich, 1988: 23, 35, **97–98**, f. 185–192, 725 (m).

C. w. Penney & Pérez-Gelabert, 2002: 210.

C. w. Wunderlich, 2004: 907, 948, f. 35 [cop. Wunderlich 1988: f. 191].

Type specimen. Male, GPIH Nr. 2537.

Other cited material. One paratype male, SMF 38352.

Cyrtognatha sp. indet.

C. sp. indet. Wunderlich, 2004: 909.

Cited material. Male, Do–3755.

Gen. **Homalometa** Simon, 1897

m **fossilis** Wunderlich, 1988

H. f. Wunderlich, 1988: 35, **100–102**, f. 208–217 (m).

H. f. Penney & Pérez-Gelabert, 2002: 210.

Type and only known specimen. Male, SMF 38145.

Gen. **Leucauge** White, 1841

Leucauge sp. indet.

L. sp. indet. Wunderlich, 1988: 35, **99**, f. 184.

L? sp. indet. Wunderlich, 2004: 907.

Cited material. Juvenile female?, SMF 38304.

Gen. **Nephila** Leach, 1815

m **breviembolus** Wunderlich, 1986

N. b. Wunderlich, 1986: 47, 64, **79–80**, 81, 88, 137, f. 151 (m).

N. b. Wunderlich, 1988: 35, 99.

N. b. Penney & Pérez-Gelabert, 2002: 210.

N. b. Wunderlich, 2004: 133.

Type specimen. Male, SMF 38177.

Other cited material. One paratype male, SMF 38296.

m **dommeli** Wunderlich, 1982

N. d. Wunderlich, 1982: **32–34**, f. 3–12, 50 (m).

N. d. Schawaller, 1982: 9.

N. d. Wunderlich, 1986: 48, 49, 50, 79, 80, 82, 88 f. 149–150, 324 (m) [cop. Wunderlich 1982: f. 7, 10, 50].

N. d. Wunderlich, 1988: 10, 11, 16, 20, 35, 99, 100, 170, f. 194–197 (m) [f. 194 cop. Wunderlich 1982: f. 10; f. 195 cop. Wunderlich 1982: f. 7].

N. d. Poinar, 1992: 233, f. 129.

N. d. Penney & Pérez-Gelabert, 2002: 210.

N. d. Penney, 2003: 8.

N. d. Penney, 2004: 188.

N. d. Wunderlich, 2004: 266, f. b [cop. Wunderlich 1982: f. 7], 996, f. 49 [cop. Wunderlich 1982: f. 7].

Type specimen. Male, SMF 38161.

Other cited material. Seven paratype males: (a) SMF 38225, (b) ?PCJW, (c) SMF 38263, (d) SMF 38280, (e) SMF 38294, (f) SMF 38261, (g) SMF 38287; one male, SMF 38336; three juvenile females, SMF 38363 (in separate pieces of amber, but deposited under the same number, tentatively placed in this species); three juvenile males, PCJW no numbers assigned; two males: AMPP 210, AMPP 236 (the former has a large feather syninclusion).

m **furca** Wunderlich, 1986

N. f. Wunderlich, 1986: 64, 80, **81**, 137, f. 152–155 (m).

N. f. Wunderlich, 1988: 35, 99.

N. f. Penney & Pérez-Gelabert, 2002: 210.

Type specimen. Male, SMF 38272.

Other cited material. Three paratype males: (a) SMF 38256, (b) SMF 38303, (c) SMF 38334; one juvenile female SMF 38334 (catalogued with paratype male c).

Remarks. The juvenile female mentioned by Wunderlich (1986) was only tentatively assigned to this species.

m **longembolus** Wunderlich, 1986

N. l. Wunderlich, 1986: 64, 81, **82**, 137, f. 158–159 (m).

N. l. Wunderlich, 1988: 35, 99.

N. l. Penney & Pérez-Gelabert, 2002: 210.

Type and only known specimen. Male, SMF 38295.

- m **tenuis** Wunderlich, 1986
N. t. Wunderlich, 1986: 64, **80–81**, 82, 88, 137, f. 156–157 (m).
N. t. Wunderlich, 1988: 35, 99.
N. t. Penney & Pérez-Gelabert, 2002: 210.

Type and only known specimen. Male, SMF 38345.

Nephila sp. indet.

N. dommeli? Wunderlich, 1988: 100.

Cited material. Twenty spiderlings, SMF 38335, in a single piece of amber.

Remarks. It is not possible to place the spiderlings with certainty, or even tentatively in any of the above species due to their extreme immaturity.

Gen. **Tetragnatha** Latreille, 1804

- m **pristina** Schawaller, 1982
T. p. Schawaller, 1982: **3–6**, f. 1–9 (m).
T. p. Wunderlich, 1988: 35, 96, f. 181–183, 724 (m) [f. 181–183 cop. Schawaller 1982: f. 4–6].
T. p. Penney & Pérez-Gelabert, 2002: 210.
T. p. Wunderlich, 2004: 907.

Type specimen. Male, Do–3591–D–1.

Other cited material. One male, PCHM.

gen. et sp. indet.

gen. et sp. indet. Schawaller, 1981b: 3.

Cited material. Five specimens, sex not mentioned: Do–779–K, Do–826–K, Do–1512–K, Do–2191–K, Do–2416–K.

Family ARANEIDAE

Gen. †**Araneometa** Wunderlich, 1988

Type species. *Araneometa herrlingi* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

- m **excelsa** Wunderlich, 1988
A. e. Wunderlich, 1988: 36, **111–112**, f. 242–244 (m).
A. e. Penney & Pérez-Gelabert, 2002: 211.
A. e. Wunderlich, 2004: 984.

Type specimen. Male, SMF 38311.

- m **herrlingi** Wunderlich, 1988*
A. h. Wunderlich, 1988: 36, **109–110**, 111, 112, f. 231–237, 729 (m).
A. h. Penney & Pérez-Gelabert, 2002: 211.
A. h. Wunderlich, 2004: 984.

Type specimen. Male, GPIH Nr. 2536.

Other cited material. Two paratype males: (a) SMF 38318, (b) SMF 38326.

- m **spirembolus** Wunderlich, 1988
A. s. Wunderlich, 1988: 36, **110–111**, 112, f. 238–241 (m).
A. s. Penney & Pérez-Gelabert, 2002: 211.
A. s. Penney, 2004: 188.
A. s. Wunderlich, 2004: 984.

Type specimen. Male, SMF 38279.

Other cited material. Male, AMPP 237.

Remarks. Wunderlich (1988) stated that the holotype was in the collection of the GPIH; this is not the case. It is in the SMF.

Araneometa sp. indet.

A. sp. indet. Wunderlich, 1988: 36, **112**, f. 245.
A. sp. indet. Wunderlich, 2004: 984.

Cited material. One juvenile female, SMF 38302.

Gen. **Araneus** Clerck, 1757

- m **nanus** Wunderlich, 1988
A? n. Wunderlich, 1988: 35, **105–106**, f. 218–222 (m).
A? n. Penney & Pérez-Gelabert, 2002: 211.
A? n. Wunderlich, 2004: 984.

Type and only known specimen. Male, SMF 38153.

[Gen. **Cyclosa** Menge, 1866]

Transferred to other genera:

C. verrucosa Wunderlich, 1988—**Enacrosoma**

Gen. **Enacrosoma** Mello-Leitão, 1932

- m **verrucosa** (Wunderlich, 1988)
Cyclosa? v. Wunderlich, 1988: 35, **107–108**, f. 225–230 (m).
E. v. Penney, 2001: 998–999.
E. v. Penney & Pérez-Gelabert, 2002: 211.
E. v. Wunderlich, 2004: 984.

Type specimen. Male, SMF 38274.

Other cited material. Two males: PRC A–10–254, LL 12480.

Gen. †**Fossilaraneus** Wunderlich, 1988

Type and only known species. *Fossilaraneus incertus* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

- m **incertus** Wunderlich, 1988*
F. i. Wunderlich, 1988: 36, **113**, f. 246–248 (m).
F. i. Penney & Pérez-Gelabert, 2002: 211.
F. i. Wunderlich, 2004: 984.

Type and only known specimen. Male, SMF 38344.

Gen. †**Pycnosinga** Wunderlich, 1988

Type and only known species. *Pycnosinga fossilis* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

- m **fossilis** Wunderlich, 1988*
P. f. Wunderlich, 1988: 35, **106–107**, f. 223–224 (m).
P. f. Penney & Pérez-Gelabert, 2002: 212.
P. f. Wunderlich, 2004: 984.

Type and only known specimen. Male, SMF 38248.

gen. et sp. indet.

gen. et sp. indet. Schawaller, 1981: 3.

Cited material. Fourteen specimens, sex not mentioned: Do–66–K, Do–789–K, Do–1234–K, Do–1266–K, Do–1415–K, Do–1987–K, Do–2209–K, Do–2348–K, Do–2439–K, Do–2480–K, Do–2567–B, Do–2796–D, Do–3114–D, Do–3115–D.

Family LYCOSIDAE

gen. et sp. indet.

gen. et sp. indet. Penney, 2001: **999–1000**, f. 6a–b (j)

gen. et sp. indet. Wunderlich, 2004: 1543, 1558, f. 1.

Cited material. Juvenile, PRC A–10–212.

Remarks. Wunderlich (2004) tentatively suggested that this specimen may belong in Trechaleidae or possibly Pisauridae, Zoridae or Zoropsidae. However, it is retained here as originally placed.

Family PISAURIDAE

gen. et sp. indet.

gen. et sp. indet. Wunderlich, 1988: 38, **196–197**, f. 752.

gen. et sp. indet. Wunderlich, 2004: 1583, 1543.

Cited material. One juvenile, SMF 39006.

Remarks. This specimen may actually belong in the Trechaleidae (Wunderlich, 2004: 1538, 1543), but it is retained here, as originally placed, until a firm conclusion is reached.

Family OXYOPIDAE

Gen. **Oxyopes** Latreille, 1804

- m **defectus** Wunderlich, 1988
O. d. Wunderlich, 1988: 38, **198**, f. 523–526 (m).
O. d. Penney & Pérez-Gelabert, 2002: 212.
O. d. Wunderlich, 2004: 1554–1556, f. 5–7 [cop. Wunderlich 1988: f. 522–524].

Type and only known specimen. Male, SMF 38189.

Remarks. Wunderlich (2004: 1556, f. 5) is a copy of Wunderlich (1988: f. 522). Wunderlich (2004) refers this figure to *O. defectus*, whereas Wunderlich (1988) refers it to *O. sp. indet.* (see below).

Oxyopes sp. indet.

O. sp. indet. Wunderlich, 1988: 38, **197–198**, f. 522.

O. sp. indet. Wunderlich, 2004: 1554, phot. 338–339.

Cited material. One juvenile male, SMF 38205; two juvenile specimens in the personal collection of J. Wunderlich; one male, Do–3300; one juvenile, Do–4975.

Remarks. See under *O. defectus* above.

gen. et sp. indet.

gen. et sp. indet. Schawaller, 1981: 3.

Cited material. One specimen, sex not mentioned, Do–3300–M.

Family CTENIDAE

Gen. †**Nanoctenus** Wunderlich, 1988

Type and only known species. *Nanoctenus longipes* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

- m **longipes** Wunderlich, 1988*
N. l. Wunderlich, 1988: 38, **199–200**, f. 527–534, 753 (m).
N. l. Selden, 1993: 315.
N. l. Penney & Pérez-Gelabert, 2002: 212.
N. l. Alayón-García, 2004: 277.

Type specimen. Male, GPIH Nr. 2542.

Other cited material. One paratype male, GPIH Nr. 2543.

gen. et sp. indet.

gen. et sp. indet. Schawaller, 1981: 3.

Cited material. Two specimens, sex not mentioned; Do–2675–B, Do–2998–E.

Family AGELENIDAE

gen. et sp. indet.

gen. et sp. indet. Schawaller, 1981: 3.
gen. et sp. indet. Wunderlich, 1988: 195.

Cited material. Two specimens, sex not mentioned: Do-177-K, Do-1927-K.

Remarks. Due to the poor state of preservation of these specimens Wunderlich (1988) expressed reservations regarding their placement in this family.

Family DICTYNIDAE

Gen. †**Hispaniolyna** Wunderlich, 1988

Type species. *Hispaniolyna magna* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

- m **hirsuta** Wunderlich, 1988
H? h. Wunderlich, 1988: 38, 179, 193, **194–195**, f. 515–521 (m).
H. h. Penney & Pérez-Gelabert, 2002: 213.

Type specimen. Male, SMF 38180.

- m **magna** Wunderlich, 1988*
H. m. Wunderlich, 1988: 38, **193–194**, 195, f. 506–514, 751 (m).
H. m. Penney & Pérez-Gelabert, 2002: 213.
H. cf. m. Penney, 2004: 188.

Type specimen. Male, PCHM.

Other cited material. One paratype male, SMF 38172; one male, AMPP 247.

Gen. †**Palaeodictyna** Wunderlich, 1988

Type species. *Palaeodictyna termitophila* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

- m **intermedia** Wunderlich, 1988
P. i. Wunderlich, 1988: 38, **185–186**, f. 486.
P. i. Penney & Pérez-Gelabert, 2002: 213.

Type specimen. Male, SMF 38173.

Other cited material. One paratype male, SMF 38117.

- m **longispina** Wunderlich, 1988
P. l. Wunderlich, 1988: 38, **187–188**, f. 489.
P. l. Penney & Pérez-Gelabert, 2002: 213.

Type and only known specimen. Male, SMF 38157.

- f **singularis** Wunderlich, 1988
P? s. Wunderlich, 1988: 38, **189**, f. 492 (f).
P? s. Penney & Pérez-Gelabert, 2002: 213.

Type and only known specimen. Female, SMF 38126.

- m **spiculum** Wunderlich, 1988
P. s. Wunderlich, 1988: 38, 185, **186–187**, 188, f. 487–488.
P. s. Penney & Pérez-Gelabert, 2002: 213.

Type and only known specimen. Male, SMF 38204.

- m **termitophila** Wunderlich, 1988*
P. t. Wunderlich, 1988: 38, **184–185**, 186, 188, f. 484–485 (m).
P. t. Penney & Pérez-Gelabert, 2002: 213.

Type specimen. Male, SMF 38140.

Other cited material. Three paratype males: (a) SMF 38148, (b) SMF 38156, (c) SMF 38164.

- m **unispina** Wunderlich, 1988
P. u. Wunderlich, 1988: 38, 184, **188**, f. 490–491 (m).
P. u. Penney & Pérez-Gelabert, 2002: 213.
Type specimen. Male, SMF 38196.

Gen. †**Palaeolathys** Wunderlich, 1986

Type species. *Palaeolathys spinosa* Wunderlich, 1986, fossil in Miocene Dominican Republic amber.

A key to fossil species in Dominican amber was provided by Wunderlich (1988: 180).

- m **circumductus** Wunderlich, 1988
P? c. Wunderlich, 1988: 37, 180, **183**, f. 480–482 (m).
P? c. Penney & Pérez-Gelabert, 2002: 213.

Type and only known specimen. Male, SMF 38132.

- m **quadruplex** Wunderlich, 1988
P. q. Wunderlich, 1988: 37, 180, **181–182**, 183, f. 468–470 (m).
P. q. Penney & Pérez-Gelabert, 2002: 213.

Type specimen. Male, SMF 38165.

Other cited material. One paratype male, SMF 38125.

- m **similis** Wunderlich, 1988
P. s. Wunderlich, 1988: 37, 180, 181, **182–183**, f. 471–479 (m).
P. s. Penney & Pérez-Gelabert, 2002: 213.

Type and only known specimen. Male, SMF 38181.

- m **spinosa** Wunderlich, 1986*
P. s. Wunderlich, 1986: 64, 65, **66**, 67, 87, 137, f. 57–64 (m).
P. s. Wunderlich, 1988: 20, 37, 180, f. 465–467, 749 (m) [cop. Wunderlich 1986: f. 62–64].
P. s. Penney & Pérez-Gelabert, 2002: 213.
P. s. Penney, 2004: 188.

Type specimen. Male, GPIH Nr. 2544.

Other cited material. Male, AMPP 241.

- f **Palaeolathys? sp. indet.**
P? sp. indet. Wunderlich, 1988: 37, **184**, f. 483 (f).

Cited material. Female, SMF 38188.

Gen. †**Succinya** Wunderlich, 1988

Type species. *Succinya pulcher* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

A key to fossil species in Dominican amber is given in Wunderlich (1988: 190).

- m **longembolus** Wunderlich, 1988
S. l. Wunderlich, 1988: 38, 190, **191–192**, f. 499–501 (m).
S. l. Penney & Pérez-Gelabert, 2002: 213.

Type and only known specimen. Male, SMF 38149.

- m **pulcher** Wunderlich, 1988
S. p. Wunderlich, 1988: 38, **190–191**, f. 493–498, 750 (m).
S. p. Penney & Pérez-Gelabert, 2002: 213.

Type and only known specimen. Male, SMF 38133.

- m **spinipalpus** Wunderlich, 1988
S. spinipalpis Wunderlich, 1988: 38 (a *lapsus calami*).
S. s. Wunderlich, 1988: 190, **192**, f. 502–505 (m).
S. s. Penney & Pérez-Gelabert, 2002: 213.

Type specimen. Male, SMF 38141.

[Family AMAUROBIIDAE]

Remarks. The juvenile female specimen (Do–1344–K) listed as gen. et sp. indet., preserved in Dominican Republic amber by Schawaller (1981b: 3), is actually preserved in Baltic amber (Wunderlich, 1988: 195).

Family MITURGIDAE

Gen. **Strotarchus** Simon 1888

Remarks. Wunderlich (1988) placed this genus in the family Clubionidae s.s., it is placed here following Platnick (2005).

- m **heidti** Wunderlich, 1988
S. h. Wunderlich, 1988: 39, **224–226**, f. 613–622, 767 (m).
S. h. Penney & Pérez-Gelabert, 2002: 213.
S. h. Wunderlich, 2004: 1614.

Type specimen. Male, GPIH Nr. 2541.

Other cited material. One paratype male, SMF 38191.

Family ANYPHAENIDAE

Gen. **Anyphaenoides** Berland, 1913

- m **bullae** (Wunderlich, 1988)
Aysha bella Wunderlich, 1988: 39 (a *lapsus calami*).
A. bulla Wunderlich, 1988: 218, **220–221**, f. 599–602, 764 (m).
Anyphaenoides b. Penney, 2000b: 223, f. 1 (m) [emended diagnosis].
A. b. Penney & Pérez-Gelabert, 2002: 213.
A. b. Wunderlich, 2004: 1687.

Type and only known specimen. Male, SMF 38160.

[Gen. **Aysha** Keyserling, 1891]

Transferred to other genera:

A. bulla Wunderlich, 1988—see **Anyphaenoides**
 Gen. **Lupettiana** Brescovit, 1996

- m **ligula** (Wunderlich, 1988)
Teudis ligula Wunderlich, 1988: 39 (a *lapsus calami*).
T. ligula Wunderlich, 1988: 218, **221–222**, f. 603–605, 765 (m).
Lupettiana l. Penney, 2000b: 223, f. 2 (m) [emended diagnosis].
L. l. Penney & Pérez-Gelabert, 2002: 214.
L. l. Wunderlich, 2004: 1687.

Type and only known specimen. Male, SMF 38152.

[Gen. **Teudis** O. P.-Cambridge, 1896]

Transferred to other genera:

T. ligula Wunderlich, 1988—see **Lupettiana**

Gen. **Wulfila** O.P.-Cambridge, 1895

- m **spinipes** Wunderlich, 1988
W. s. Wunderlich, 1988: 39, **218–220**, f. 589–598, 762–763 (m).
W. s. Penney, 2000b: 224 (m).
W. s. Penney & Pérez-Gelabert, 2002: 214.
W. s. Wunderlich, 2004: 1687.

Type specimen. Male, SMF 38136.

Other cited material. One paratype male, SMF 38144.

gen. et sp. indet.

gen. et sp. indet. Penney, 2004: 188.

Cited material. Juvenile, AMPP 240.

Family LIOCRANIDAE

- f **Liocranidae? gen. et sp. indet.**
 gen. et sp. indet. Wunderlich, 1988: 39, **217**, f. 588
 (f).
 gen. et sp. indet. Wunderlich, 2004: 1624.

Cited material. Female, SMF 38128.

Family CLUBIONIDAE

In synonymy:

Clubionoides Edwards, 1958 = *Elaver* O. P.-Cambridge, 1898 (Brescovit et al., 1994: 36).

Gen. **Elaver** O. P.-Cambridge, 1898

- m **nutua** (Wunderlich, 1988)
Clubionoides n. Wunderlich, 1988: 39, **222–223**, f.
 606–612, 766 (m).
E. n. Penney & Pérez-Gelabert, 2002: 214.
E. n. Wunderlich, 2004: 1614.

Type specimen. Male, SMF 38199.

Other cited material. Two paratype males: (a) SMF 38207, (b) SMF 38120.

CLUBIONIDAE *s. l.*

gen. et sp. indet.

gen. et sp. indet. Poinar, 1987: 399, f. 1–2.
 gen. et sp. indet. Schawaller, 1981: 3.

Cited material. Juvenile male, PRC A–10–12; twelve specimens, sex not mentioned: Do–888–K, Do–942–K, Do–1345–K, Do–1516–K, Do–1551–K, Do–2109–K, Do–2250–K, Do–2399–K, Do–2460–K, Do–2723–D, Do–3157–D, Do–3226–M.

Family CORINNIDAE

Transferred to other families:

†**Veterator** Petrunkevitch, 1963—see **Trochanteriidae**.

Gen. **Castianeira** Keyserling, 1880

- m **tenebricosa** Wunderlich, 1988
C. t. Wunderlich, 1988: 38, 201, **204–205**, f. 542–
 545 (m).
C. t. Penney & Pérez-Gelabert, 2002: 214.
C. t. Wunderlich, 2004: 1639.

Type and only known specimen. Male, SMF 38183.

Gen. †**Chemmisomma** Wunderlich, 1988

Type and only known species. *Chemmisomma dubia* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

- m **dubia** Wunderlich, 1988
C. d. Wunderlich, 1988: 38, 201, **216**, f. 580–587,

761 (m).

C. d. Penney & Pérez-Gelabert, 2002: 214.
C. d. Wunderlich, 2004: 1639.

Type specimen. Male, SMF 38151.

Other cited material. Three paratype males: (a) SMF 38143, (b) SMF 38135, (c) SMF 38159.

Gen. **Corinna** C.L. Koch, 1842

- m **flagelliformis** Wunderlich, 1988
C. f. Wunderlich, 1988: 38, 201, **203–204**, f. 541,
 756 (m).
C. f. Penney & Pérez-Gelabert, 2002: 214.
C. f. Wunderlich, 2004: 1639.

Type and only known specimen. Male, SMF 38175.

Gen. **Megalostrata** Karsch, 1880

- m **grandis** Wunderlich, 1988
M. g. Wunderlich, 1988: 38, **201–202**, f. 535–539,
 754–755 (m).
M. g. Penney & Pérez-Gelabert, 2002: 214.
M. g. Wunderlich, 2004: 1639.

Type and only known specimen. Male, SMF 38167.

Gen. **Trachelas** L. Koch, 1866

- m **poinari** Penney, 2001
T. p. Penney, 2001: **1000–1002**, pl. 2 f. 1–2, f. 7–8.
T. p. Penney & Pérez-Gelabert, 2002: 214.
T. p. Wunderlich, 2004: 1639, 1668, f. 1 [cop.
 Penney 2001: f. 7].

Type and only known specimen. Male, PRC A–10–136.

Remarks. Belongs in the *bicolor* species group *sensu* Platnick & Shadab (1974a,b).

Family TROCHANTERIIDAE

Gen. †**Veterator** Petrunkevitch, 1963

Type species. *Veterator extinctus* Petrunkevitch, 1963, fossil in Miocene–Oligocene Mexican amber.

Remarks. Petrunkevitch (1963) originally placed this genus in Sparassidae, Wunderlich (1982) transferred it to Gnaphosidae, Wunderlich (1986) transferred it to Corinnidae and Wunderlich (2004) tentatively transferred it to Trochanteriidae.

A key to fossil species in Dominican amber was provided by Wunderlich (1988: 206).

- m **angustus** Wunderlich, 1988
V. a. Wunderlich, 1988: 12, 38, 206, 207, **211–212**,
 f. 568–573, 757–758 (m).

V. a. Penney & Pérez-Gelabert, 2002: 214.

Type and only known specimen. Male, SMF 38174.

- m **ascutum** Wunderlich, 1988
V. a. Wunderlich, 1988: 38, 206, **208**, 210, 213, f. 550–553, 760 (m).
V. a. Penney & Pérez-Gelabert, 2002: 214.
V. a. Penney, 2004: 188.

Type specimen. Male, SMF 38119.

Other cited material. Male, AMPP 239.

- m **incompletus** Wunderlich, 1982
V. i. Wunderlich, 1982: **40–41**, f. 29–41 (m).
V. i. Wunderlich, 1988: 38, 206, **210–211**, 212, f. 558–567 (m) [all cop. Wunderlich 1982: f. 29, 31, 33, 35–41].
V. i. Penney & Pérez-Gelabert, 2002: 214.

Type specimen. Male, SMF 38142.

Other cited material. One paratype male, SMF 38150.

- m **longipes** Wunderlich, 1988
V. l. Wunderlich, 1988: 38, 206, 208, **209–210**, 211, 212, f. 554–557 (m).
V. l. Penney & Pérez-Gelabert, 2002: 214.

Type specimen. Male, SMF 38198.

Other cited material. One paratype male, PCJW no number assigned.

- m **loricatus** Wunderlich, 1988
V. l. Wunderlich, 1988: 38, 206, **212–213**, 215, f. 574–576 (m).
V. l. Penney & Pérez-Gelabert, 2002: 214.

Type and only known specimen. Male, SMF 38172.

- m **porrectus** Wunderlich, 1988
V. porrectum Wunderlich, 1988: 38 (a *lapsus calami*).
V. p. Wunderlich, 1988: **206–207**, 208, 210, 212, f. 546–549, 759 (m).
V. p. Penney & Pérez-Gelabert, 2002: 214.

Type specimen. Male, SMF 38158.

Other cited material. One male, SMF 38166.

- f **viduus** Wunderlich, 1988
V. v. Wunderlich, 1988: 38, 206, **214–215**, f. 577–579 (f).
V. v. Penney & Pérez-Gelabert, 2002: 214.

Type and only known specimen. Female, SMF 38206.

- f **Veterator sp. indet.**

V. sp. 1 Wunderlich, 1988: 38, **215**.

V. sp. 2 Wunderlich, 1988: 38, **215**.

Cited material. Two females: SMF 38182, SMF 38190.

Family GNAPHOSIDAE

Transferred to other families:

†**Veterator** Petrunkevitch, 1963—see **Trochanteriidae**.

Gen. †**Drassyllinus** Wunderlich, 1988

Type and only known species. *Drassyllinus aliter* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

- m **aliter** Wunderlich, 1988*
D. a. Wunderlich, 1988: 39, **227–228**, f. 623–631 (m).
D. a. Penney & Pérez-Gelabert, 2002: 214.
D. a. Wunderlich, 2004: 1683.

Type and only known specimen. Male, SMF 38134.

INCERTUS GENUS

gen. et sp. indet.

gen. et sp. indet. Schawaller, 1981b: 3.

gen. et sp. indet. Wunderlich, 1988: 228, f. 632.

Cited material. Two specimens, sex not mentioned: Do–1549–K, Do–3298–M; three males, one female, one juvenile male, all ?PCJW no numbers assigned.

Family SELENOPIIDAE

Gen. **Selenops** Latreille, 1819

- m **beynai** Schawaller, 1984
S. b. Schawaller, 1984: **3–6**, f. 1–9 (m).
S. b. Wunderlich, 1988: 39, 234, f. 650–652 [cop. Schawaller 1984: f. 5], 770.
S. b. Alayón-García, 1992: 1.
S. b. Selden, 1993: 315.
S. b. Penney & Pérez-Gelabert, 2002: 215.
S. b. Bosselaers, 2004: 2.
S. b. Wunderlich, 2004: 1734–1736, f. 5 [cop. Schawaller 1984: f. 5].

Type and only known specimen. Male, Do–3940–B–1.

Remarks. The juvenile specimen described as *S. beynai* by Wunderlich (1988) was transferred to *Selenops* sp. indet. by Penney (2001).

- m **dominicanus** Wunderlich, 2004
S. d. Wunderlich, 2004: **1734–1736**, f. 1–4 (m).
S. dominicana Wunderlich, 2004: 1736 (a *lapsus calami*).

Type and only known specimen. Male, PCJW F932/DB/AR/SEL.

Remarks. Wunderlich (2004: 1733) stated that the holotype will probably be deposited in SMF.

Selenops sp. indet.

S. beynai Wunderlich, 1988: 39, 234, f. 650–652 [cop. Schawaller 1984: f. 5], 770.

S. sp. 1 Wunderlich, 1988: 39, **235**, f. 653 (transferred here by Penney [2001]).

S. sp. 2 Wunderlich, 1988: 39, **235** (transferred here by Penney [2001]).

S. sp. indet. Penney, 2001: 1002–1003.

S. sp. indet. Bosselaers, 2004: 2.

S. sp. 1 Wunderlich, 2004: 1734.

S. sp. 2 Wunderlich, 2004: 1734.

Cited material. Three exuvia: SMF 38121, SMF 38129, PRC A–10–203; one juvenile male, SMF 38208; Six juveniles: SMF 39003, PRC A–10–47, PRC A–10–108, PRC A–10–109, PRC A–10–110, PRC A–10–111.

Family SPARASSIDAE

Transferred to other families:

†**Veterator** Petrunkevitch, 1963—see **Trochanteriidae**.

In synonymy:

Tentabunda Fox, 1937 = **Pseudosparianthis** Simon, 1887 (see Penney, 2001: 1004)

Gen. **Pseudosparianthis** Simon, 1887

m **pfeifferi** (Wunderlich, 1988)

Tentabunda? *p.* Wunderlich, 1988: 39, **233**, f. 646–649 (misspelling of *Tentabunda* Fox, 1937) (m).

P. p. Penney, 2001: 1004–1005.

P. p. Penney & Pérez-Gelabert, 2002: 215.

P. p. Wunderlich, 2004: 1695.

Type and only known specimen. Male, SMF 38200.

Family PHILODROMIDAE

gen. et sp. indet.

gen. et sp. indet. Schawaller, 1981: 3.

gen. et sp. indet. Wunderlich, 1988: 39, **231–232**, f. 645, 769.

gen. et sp. indet. Wunderlich, 2004: 1690.

Cited material. One specimen, sex not mentioned, Do–1550–K; three juveniles: (a) SMF 38184, (b) SMF 38192, (c) PCHM.

Remarks. According to Wunderlich (2004) two of the juveniles may belong in *Apollophanes* O. Pickard-Cambridge, 1898.

Family THOMISIDAE

Gen. †**Heterotmarus** Wunderlich, 1988

Type and only known species. *Heterotmarus altus* Wun-

derlich, 1988, fossil in Miocene Dominican Republic amber.

m **altus** Wunderlich, 1988*

gen. et sp. indet. Wunderlich, 1986: 162, f. 38.

H. a. Wunderlich, 1988: 12, 39, 228, **229–230**, f. 633–641, 768 (m) [cop. Wunderlich 1986: fig. 38].

H. a. Penney & Pérez-Gelabert, 2002: 215.

H. a. Wunderlich, 2004: 1750.

Type and only known specimen. Male, SMF 38168.

Gen. †**Komisumena** Ono, 1981

Type and only known species. *Komisumena rosae* Ono, 1981, fossil in Miocene Dominican Republic amber.

m **rosae** Ono, 1981*

K. r. Ono, 1981: **4–10**, f. 1–40 (m).

K. r. Wunderlich, 1988: 39, 228, 229, f. 642–644 (m) [all cop. Ono 1981: f. 2, 6, 11].

K. r. Penney & Pérez-Gelabert, 2002: 215.

K. r. Wunderlich, 2004: 1750.

Type and only known specimen. Male, Do–2528–B–1.

gen. et sp. indet.

gen. et sp. indet. Schawaller, 1981b: 4.

gen. et sp. indet. Wunderlich, 1988: 39, **231**.

gen. et sp. indet. Wunderlich, 2004: 1750.

Cited material. One specimen, sex not mentioned, Do–2996–E; juvenile male, SMF 38176.

Family SALTICIDAE

Gen. **Corythalia** C.L. Koch, 1851

m **ocululiter** Wunderlich, 1988

C. o. Wunderlich, 1988: 39, 240, **241–242**, f. 674–675, 779 (m).

C. o. Wolff, 1990: 405.

C. o. Penney & Pérez-Gelabert, 2002: 216.

C. o. Penney, 2004: 188.

C. o. Wunderlich, 2004: 1769.

Type specimen. Male, PCJW no number assigned, eventually to be deposited in SMF (Wunderlich, pers. comm., 2005).

Other cited material. Male, AMPP 233.

m **pilosa** Wunderlich, 1982

C. p. Wunderlich, 1982: **43**, f. 43–49, 52–53 (m).

C. p. Wunderlich, 1986: 48, f. 363–364 [cop. Wunderlich 1982: f. 52–53].

C. p. Wunderlich, 1988: 39, 239, f. 663–669, 775–776 (m) [all cop. Wunderlich 1982: f. 43–49, 52–53].

C. p. Wolff, 1990: 405.

- C. p.* Edwards & Wolff, 1995: 34.
C. p. Penney & Pérez-Gelabert, 2002: 216.
C. p. Penney, 2004: 188.
C. p. Wunderlich, 2004: 1769.

Type specimen. Male, PCJW no number assigned, eventually to be deposited in SMF (Wunderlich, pers. comm., 2005).

Other cited material. Male, AMPP 229.

- m **scissa** Wunderlich, 1988
C. s. Wunderlich, 1988: 39, **240–241**, f. 670–673, 777–778 (m)
C. s. Wolff, 1990: 405.
C. s. Penney & Pérez-Gelabert, 2002: 216.
C. s. Wunderlich, 2004: 1769.

Type and only known specimen. Male, PCJW no number assigned, eventually to be deposited in SMF (Wunderlich, pers. comm., 2005).

Corythalia sp. indet.

- C. sp. indet.* Cutler, 1984: 45.

Cited material. One adult, sex not mentioned, in the personal collection of B. Cutler (University of Kansas, USA).

Gen. †**Descangeles** Wunderlich, 1988

Type species. *Descangeles pygmaeus* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

- m **pygmaeus** Wunderlich, 1988*
D. p. Wunderlich, 1988: 40, **248–249**, 250, f. 694–698, 787 (m).
D. p. Wolff, 1990: 405.
D. p. Penney & Pérez-Gelabert, 2002: 216.
D. p. Wunderlich, 2004: 1769.

Type and only known specimen. Male, SMF 38185.

f **Descangeles? sp. indet.**

- D?* sp. 1 Wunderlich, 1988: 40, **249**, f. 699.
D? sp. 2 Wunderlich, 1988: 40, **250**.
D. sp. 1 Wunderlich, 2004: 1770.
D. sp. 2 Wunderlich, 2004: 1770.

Cited material. One female, PCJW no number assigned; one juvenile? female, SMF 38154.

Gen. **Descanso** Peckham & Peckham, 1892

Descanso? sp. indet.

- gen. et sp. indet. Wunderlich, 1986: 48, f. 33.
D? sp. Wunderlich, 1988: 22, 40, **247–248**, f. 693.
D? sp. Wunderlich, 2004: 1770, 1803.

Cited material. One juvenile male, SMF 38146.

Remarks. Wunderlich (2004: 1803) accidentally makes reference to *?Descangeles* sp. indet. rather than *?Descanso* sp. indet.

Gen. **Lyssomanes** Hentz, 1845

In synonymy:

L. galianoae Reiskind, 1989 = *L. pristinus* Wunderlich, 1986 (Penney, 2001: 1005)

- m **pristinus** Wunderlich, 1986
L. sp. indet. Reiskind, 1986: 423.
L. p. Wunderlich, 1986: 11, f. 5; 64, 85, **86**, 137, f. 186–196 (m).
L. sp. indet. Wunderlich, 1988: 237.
L. p. Wunderlich, 1988: 12, 39, 237, 239, f. 654–656, 771 (m) [all cop. Wunderlich 1986: f. 186, 192–194].
L. galianoae Reiskind, 1989: **221**, f. 3 (m).
L. p. Wolff, 1990: 405.
L. g. Edwards & Wolff, 1995: 43.
L. p. Penney, 2001: 1005.
L. p. Penney & Pérez-Gelabert, 2002: 216.
L. p. Penney, 2004: 188.
L. p. Wunderlich, 2004: 1770, 1802.

Type specimen. Male, SMF 38178, in Miocene Dominican Republic amber, held in the Senckenberg Museum, Frankfurt.

Other cited material. One male (type of *L. galianoae* Reiskind, 1989) in the personal collection of Dr J. Reiskind, to be deposited in the Florida State collection of Arthropods; one male, PCJW no number assigned; one male, AMPP 228.

- m **pulcher** Wunderlich, 1988
L. sp. indet. Wunderlich, 1986: f. 369.
L. p. Wunderlich, 1988: 12, 39, 237, **238–239**, f. 657–662, 772–774 (m) [cop. Wunderlich 1986: f. 369].
L. p. Wolff, 1990: 405.
L. p. Edwards & Wolff, 1995: 43.
L. p. Penney & Pérez-Gelabert, 2002: 216.
L. p. Wunderlich, 2004: 1770, 1802, phot. 411.

Type specimen. Male, SMF 38170.

Other cited material. One paratype male, PCJW no number assigned.

Lyssomanes sp. indet.

- L. sp. indet.* Cutler, 1984: 45.
L. sp. indet. Wunderlich, 1988: 237.

Cited material. One adult, sex not mentioned, in the personal collection of Dr B. Cutler (University of Kansas, USA); one specimen, sex unknown.

Remarks. SMF 38186 was only briefly mentioned by Wunderlich (1988), but some description was given. The

sex and stage of maturity was indeterminable because the pedipalps had been ground away.

Gen. **Nebridia** Simon, 1902

Nebridia sp. indet.

- N. sp. indet.* Cutler, 1984: 45.
N. sp. indet. Wunderlich, 1988: 242.
N. sp. indet. Wolff, 1990: 405.
N. sp. indet. Wunderlich, 2004: 1770.

Cited material. Adult, sex not mentioned, in the personal collection of Dr B. Cutler (University of Kansas, USA).

Gen. †**Pensacolatus** Wunderlich, 1988

Type species. *Pensacolatus coxalis* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

m **coxalis** Wunderlich, 1988*

- P. c.* Wunderlich, 1988: 39, **243–244**, 245, f. 676–680, 780–781 (m).
P. c. Wolff, 1990: 405.
P. c. Penney & Pérez-Gelabert, 2002: 217.
P. c. Penney, 2004: 188.
P. c. Wunderlich, 2004: 174, 1770.

Type specimen. Male, SMF 38209.

Other cited material. Male, AMPP 238.

m **spinipes** Wunderlich, 1988

- P. s.* Wunderlich, 1988: 40, **244–245**, f. 681–684, 782–783 (m).
P. s. Wolff, 1990: 405.
P. s. Penney & Pérez-Gelabert, 2002: 217.
P. s. Wunderlich, 2004: 1770.

Type and only known specimen. Male, SMF 38201.

m **tibialis** Wunderlich, 2004

- P? t.* Wunderlich, 2004: 1770, **1802–1803**, 1818, f. 82–84 (m).

Type and only known specimen. Male, PCJW F324/DB/AR/SAL.

f **Pensacolatus? sp. indet.**

- P? sp. indet.* Wunderlich, 1988: 40, **245**, f. 685–687, 784 (f).
P? sp. indet. Wunderlich, 2004: 1770.

Cited material. Female, PCJW no number assigned.

Gen. †**Phlegrata** Wunderlich, 1988

Type and only known species. *Phlegrata pala* Wunderlich, 1988, fossil in Miocene Dominican Republic amber.

m **pala** Wunderlich, 1988

P. p. Wunderlich, 1988: 40, **246–247**, f. 688–692, 786 (m).

P. p. Wolff, 1990: 405.

P. p. Edwards & Wolff, 1995: 50.

P. p. Penney & Pérez-Gelabert, 2002: 217.

P. p. Wunderlich, 2004: 1770.

Type and only known specimen. Male, SMF 38193.

Gen **Sarinda** Peckham & Peckham, 1892

m **?Sarinda sp. indet.**

S? sp. indet. Wunderlich, 2004: 1770, **1803** (m).

Cited material. Male, Do–3476–M.

Remarks. Wunderlich (2004: 1803) tentatively placed this specimen in *Sarinda* and suggested that it may be congeneric or even conspecific with the subadult male of *?Descanso sp. indet.* (accidentally cited as *?Descangeles sp. indet.*) *sensu* Wunderlich (1988) and with Salticidae gen. et sp. indet. *sensu* Wunderlich (1986: 48, f. 33).

Gen. **Thiodina** Simon, 1900

m **beugelorum** Wolff, 1990

- T. sp. indet.* Cutler, 1984: 45.
T. sp. indet. Wunderlich, 1988: 242.
T. b. Wolff, 1990: **406**, f. 1–3 (m).
T. b. Edwards & Wolff, 1995: 54.
T. b. Penney & Pérez-Gelabert, 2002: 217.
T. b. Wunderlich, 2004: 1770.

Type and only known specimen. Male in the personal collection of Dr R.J. Wolff, to be deposited in the Field Museum of Natural History, Chicago.

gen. et sp. indet.

- gen. et sp. indet. Schawaller, 1981b: 3.
 gen. et sp. indet. Wunderlich, 1986: 48, f. 33.
 gen. et sp. indet. Wunderlich, 1988: 40, **245–246**, f. 785.

Cited material. Fifty-four specimens, sex not mentioned: Do–32–K, Do–349–K, Do–365–K, Do–576–K, Do–696–K, Do–754–K, Do–830–K, Do–844–K, Do–873–K, Do–922–K, Do–1078–K, Do–1293–K, Do–1351–K, Do–1357–K, Do–1571–K, Do–1575–K, Do–1604–K, Do–1619–K, Do–1668–K, Do–1682–K, Do–1901–K, Do–1905–K, Do–2003–K, Do–2060–K, Do–2082–K, Do–2118–K, Do–2119–K, Do–2140–K, Do–2160–K, Do–2169–K, Do–2175–K, Do–2203–K, Do–2370–K, Do–2405–K, Do–2414–K, Do–2566–B, Do–2578–B, Do–2582–B, Do–2645–B, Do–2708–D, Do–2833–B, Do–2836–D (two specimens), Do–2851–D, Do–2965–B, Do–2969–B, Do–2996–E, Do–3069–E, Do–3091–E, Do–3292–M, Do–3295–M, Do–3296–M, Do–3362–M, Do–3365–M; female, SMF 38130.

Family indet.

fam. indet. Schawaller, 1981b: 4.

Material. Forty-three specimens, sex not mentioned; Do-268-K, Do-365-K, Do-370-K, Do-413-K, Do-460-K, Do-497-K, Do-610-K, Do-656-K, Do-758-K (two juveniles), Do-777-K, Do-866-K, Do-872-K, Do-913-K, Do-1150-K, Do-1299-K, Do-1309-K, Do-1344-K, Do-1348-K, Do-1451-K, Do-1539-K, Do-1565-K, Do-1583-K, Do-2110-K, Do-2116-K, Do-2158-K, Do-2183-K, Do-2240-K, Do-2242-K, Do-2316-K, Do-2414-K, Do-3026-E (three specimens), Do-3063-E, Do-3064-E, Do-3204-W, Do-3246-M, Do-3288-M, Do-3291-M (four juvenile specimens), Do-3293-M (two specimens), Do-3297-M, Do-3318-M, Do-3335-M, Do-3359-M, Do-3360-M.

Acknowledgements

I thank G.O. Poinar Jr (Oregon State University, USA), Michele and Ada Costa (Museo del Ámbar Dominicano, Puerto Plata, Dominican Republic), John Nudds (University of Man-

chester, former Keeper of Geology, Manchester Museum, UK), Manfred Graßhoff and Uli Schreiber (formerly of Senckenberg Museum, Frankfurt-am-Main, Germany), David Lewis and Andrew Ross (Natural History Museum, UK) for providing access to fossil specimens. The following are thanked for discussion/specimen information: Mark Langan and Gordon Bennett (Manchester Metropolitan University, UK), Paul Selden (University of Manchester, UK), Jörg Wunderlich (Hirschberg-Leutershausen, Germany), Wolfgang Weitschat (Geological-Palaeontological Institute and Museum of the University of Hamburg, Germany), Jonathan Coddington (Smithsonian Institution, Washington, USA), G.O. Poinar Jr (Oregon State University, USA), D. Grimaldi (American Museum of Natural History, USA), G. Bechly (Staatliches Museum für Naturkunde, Stuttgart, Germany), P. Jäger and J. Altmann (Senckenberg Museum, Frankfurt-am-Main, Germany). NERC and Leverhulme Trust grants to Paul A. Selden are acknowledged for research funding. I am particularly thankful to Jason Dunlop (Humboldt University, Germany) for his comments on the manuscript.

References

- AGNARSSON, I. 2004. Morphological phylogeny of cobweb spiders and their relatives (Araneae: Araneoidea: Theridiidae). *Zool. J. Linn. Soc.*, **141**: 447–626.
- ALAYÓN-GARCÍA, G. 1992. La familia Selenopidae (Arachnida: Araneae) en República Dominicana. *Poeyana*, **419**: 1–10.
- ALAYÓN-GARCÍA, G. 1995. La subfamilia Masteriinae (Araneae: Dipluridae) en Cuba. *Poeyana*, **453**: 1–8.
- ALAYÓN-GARCÍA, G. 2004. Notas sobre la familia Ctenidae (Arachnida: Araneae) en la Hispaniola, con la descripción de tres nuevas especies. *Rev. Iber. Aracnol.*, **9**: 277–283.
- BONNET, P. 1945–1959. *Bibliographia Araneorum. Volume 1–2*. Toulouse, Douladoure.
- BOSSELAERS, J. 2004. A new *Garcorops* species from Madagascar copal (Araneae: Selenopidae). *Zootaxa*, **445**: 1–7.
- BRESCOVIT, A. D., A. B. BONALDO & K. G. MIKHAILOV 1994. Revalidation of the spider genus *Elaver* O. Pickard-Cambridge, 1898 (Aranei: Clubionidae). *A. Selecta* **3**: 35–38.
- BRIGNOLI, P. M. 1979. *Reo latro* nov. gen. nov. sp. du Kenya. *Rev. Zool. Afr.*, **93**: 919–928.
- BRIGNOLI, P. M. 1984. On some West Indian *Mimetes* and *Lyssomanes* (Araneae: Mimetidae, Salticidae). *Bull. Brit. Arachnol. Soc.*, **6**: 200–204.
- CODDINGTON, J. A. 1986. The genera of the spider family Theridiosomatidae. *Smithson. Contrib. Zool.*, **422**: 1–96.
- COYLE, F. A. 1995. A revision of the funnelweb mygalomorph spider subfamily Ischnothelinae (Araneae, Dipluridae). *Bull. Amer. Mus. Nat. Hist.*, **226**: 1–133.
- CUTLER, B. 1984. Late Oligocene amber salticids from the Dominican Republic. *Peckhamia*, **2**: 45–46.
- DUNLOP, J. A. 1993. A review of fossil Mygalomorphs. *Mygalomorph*, **1**: 1–17.
- EDWARDS, G. B. & R. J. WOLFF 1995. A list of the jumping spiders (Salticidae) of the islands of the Caribbean region. *Peckhamia*, **3**: 27–60.
- ESKOV, K. Y. & Y. M. MARUSIK 1992. Fossil spiders of the family Nesticidae (Chelicerata, Araneida). *Palaeont. J.*, **2**: 87–95.
- ESKOV, K. Y. & S. L. ZONSTEIN 1990. First Mesozoic mygalomorph spiders from the Lower Cretaceous of Siberia and Mongolia, with notes on the system and evolution of the infraorder Mygalomorphae (Chelicerata, Araneae). *N. Jb. Geol. Paläont. Abh.*, **178**: 325–368.
- EXLINE, H. & H. W. LEVI 1962. American spiders of the genus *Argyrodes*. *Bull. Mus. Comp. Zool.*, **127**: 75–204.
- HENTZ, N. M. 1832. On North American spiders. *Am. J. Sci.*, **21**: 99–109.
- HUBER, B. A. 2000. New World pholcid spiders (Araneae: Pholcidae): A revision at generic level. *Bull. Amer. Mus. Nat. Hist.*, **254**: 1–348.
- ITURRALDE-VINENT, M. A. & R. D. E. MACPHEE. 1996. Age and palaeogeographical origin of Dominican amber. *Science*, **273**: 1850–1852.
- ITURRALDE-VINENT, M. A. & R. D. E. MACPHEE. 1999. Paleogeography of the Caribbean region: implications for Cenozoic biogeography. *Bull. Amer. Mus. Nat. Hist.*, **238**: 1–95.
- MARUSIK, Y. M. & D. PENNEY 2004. A survey of Baltic amber Theridiidae (Araneae) inclusions with descriptions of six new species. Pp. 201–218 in LOGUNOV, D. V. & D. PENNEY (eds) 2004. *European Arachnology 2003. Proceedings of the 21st European Colloquium of Arachnology (St. Petersburg, Russia, August 2003)*. KMK Scientific Press Ltd., Moscow.
- ONO, H. 1981. First record of a crab spider (Thomisidae) from Dominican amber (amber collection Stuttgart: Arachnida, Araneae). *Stuttgarter Beitr. Naturk. (B)*, **73**: 1–13.
- PENNEY, D. 1999. Hypotheses for the Recent Hispaniolan spider fauna based on the Dominican Republic amber spider fauna. *J. Arachnol.*, **27**: 64–70.
- PENNEY, D. 2000a. Miocene spiders in Dominican amber (Oonopidae, Mysmenidae). *Palaeontology*, **43**: 343–357.
- PENNEY, D. 2000b. Anyphaenidae in Miocene Dominican Republic amber (Arthropoda: Araneae). *J. Arachnol.*, **28**: 223–226.
- PENNEY, D. 2001. Advances in the taxonomy of spiders in Miocene amber from the Dominican Republic (Arthropoda, Araneae). *Palaeontology*, **44**: 987–1009.
- PENNEY, D. 2002. Paleocology of Dominican amber preservation—spider (Araneae) inclusions demonstrate a bias

- for active, trunk-dwelling faunas. *Paleobiology*, **28**: 389–398.
- PENNEY, D. 2003. To the Dominican Republic in search of amber spiders. *Newsl. Br. arachnol. Soc.*, **97**: 7–8.
- PENNEY, D. 2004. New extant and fossil Dominican Republic spider records, with two new synonymies and comments on taphonomic bias of amber preservation. *Rev. Iber. Aracnol.*, **9**: 183–190.
- PENNEY, D. 2005a. Importance of Dominican Republic amber for determining taxonomic bias of fossil resin preservation—A case study of spiders. *Palaeogeog. Palaeoclimatol. Palaeoecol.*, **223**: 1–8.
- PENNEY, D. 2005b. First Filistatidae in the fossil record: A new species of *Misionella* in Miocene amber from the Dominican Republic. *J. Arachnol.*, **33**: 93–100.
- PENNEY, D. 2005c. Fossil blood droplets in Miocene Dominican amber yield clues to speed and direction of resin secretion. *Palaeontology*, **48**: 925–927.
- PENNEY, D. 2005d. First Caribbean *Floricomus* (Araneae: Linyphiidae), a new fossil species in Miocene Dominican Republic amber. A new synonymy for the extant North American fauna. *Geol. Acta*, **3**: 59–64.
- PENNEY, D. in press. Tertiary neotropical Hersiliidae (Arthropoda, Araneae) with new combinations for the extant fauna and comments on historical biogeography of the family. *Palaeontology*.
- PENNEY, D. & A. M. LANGAN 2006. Comparing amber fossil assemblages across the Cenozoic. *Biol. Lett.* In press.
- PENNEY, D. & D. E. PÉREZ-GELABERT 2002. Comparison of the Recent and Miocene Hispaniolan spider faunas. *Rev. Iber. Aracnol.*, **6**: 203–223.
- PETRUNKEVITCH, A. 1963. Chiapas amber spiders. *Univ. Calif. Publ. Ent.*, **31**: 1–40.
- PLATNICK, N. I. 1993. *Advances in spider taxonomy 1988–1991 with synonymies and transfers 1940–1980*. New York Entomological Society, New York.
- PLATNICK, N. I. 2005. The world spider catalog, version 5.5. American Museum of Natural History, online at <http://research.amnh.org/entomology/spiders/catalog81-87/index.html>.
- PLATNICK, N. I. & M. U. SHADAB 1974a. A revision of the *tranquillus* and *speciosus* groups of the spider genus *Trachelas* in North and Central America and the West Indies. *Amer. Mus. Novit.*, **2553**, 1–34.
- PLATNICK, N. I. & M. U. SHADAB 1974b. A revision of the *bispinosus* and *bicolor* groups of the spider genus *Trachelas* in North and Central America and the West Indies. *Amer. Mus. Novit.*, **2560**, 1–34.
- PLATNICK, N. I. & M. U. SHADAB 1993. A review of the pirate spiders (Araneae, Mimetidae) of Chile. *Amer. Mus. Novit.*, **3074**: 1–30.
- POINAR, G. O. JR. 1987. Fossil evidence of spider parasitism by Ichneumonidae. *J. Arachnol.*, **14**: 399–400.
- POINAR, G. O. JR. 1992. *Life in amber*. Stanford University Press, California.
- POINAR, G. O., JR. & R. POINAR. 1999. *The amber forest: a reconstruction of a vanished world*. Princeton University Press, New Jersey.
- RAVEN, R. J. 1985. The spider infraorder Mygalomorphae (Araneae): Cladistics and systematics. *Bull. Amer. Mus. Nat. Hist.*, **182**: 1–180.
- RAVEN, R. J. 2000. Taxonomica Araneae I: Barychelidae, Theraphosidae, Nemesiidae and Dipluridae (Araneae). *Mem. Qld Mus.* **45**: 569–575.
- REISKIND, J. 1986. A new *Lyssomanes* from the Dominican amber and the possible use of insular fossils in building phylogenies. P. 423 in BARRIENTOS, J. A. (ed.) *Actas X Congreso Internacional de Aracnología, Jaca, (España), Volume 1*. Barcelona.
- REISKIND, J. 1989. The potential of amber fossils in the study of the biogeography of spiders in the Caribbean with the description of a new species of *Lyssomanes* from Dominican amber (Araneae: Salticidae). Pp. 217–227 in WOODS, C. A. (ed.) *Biogeography of the West Indies, Past, Present and Future*. Sandhill Crane Press, Gainesville, Florida.
- SÁNCHEZ-RUIZ, A. 2005. Una nueva especie de *Nops MacLeay*, 1839 (Araneae, Caponiidae) de República Dominicana. *Rev. Iber. Aracnol.*, **11**: 23–27.
- SCHAWALLER, W. 1981a. The spider family Hersiliidae in Dominican amber (amber collection Stuttgart: Arachnida, Araneae). *Stuttgarter Beitr. Naturk. (B)*, **79**: 1–10.
- SCHAWALLER, W. 1981b. Survey of the spider families in Dominican amber and other Tertiary resins (amber collection Stuttgart: Arachnida, Araneae). *Stuttgarter Beitr. Naturk. (B)*, **77**: 1–10.
- SCHAWALLER, W. 1982. Spinnen der Familien Tetragnathidae, Uloboridae und Dipluridae in Dominikanischem Bernstein und allgemeine Gesichtspunkte (Arachnida, Araneae). *Stuttgarter Beitr. Naturk. (B)*, **89**: 1–19.
- SCHAWALLER, W. 1984. The family Selenopidae in Dominican amber (Arachnida: Araneae). *Stuttgarter Beitr. Naturk. (B)*, **103**: 1–8.
- SELDEN, P. A. 1993. Arthropoda (Aglaspida, Pycnogonida and Chelicerata). Pp. 297–320 in BENTON, M. J. (ed.) *The fossil record 2*. Chapman and Hall, London.
- SHEAR, W. A. 1981. Structure of the male palpal organ in *Mimetus*, *Ero* and *Gelanor* (Araneidae: Mimetidae). *Bull. Am. Mus. Nat. Hist.*, **170**: 257–262.
- WOLFF, R. J. 1990. A new species of *Thiodina* (Araneae: Salticidae) from Dominican amber. *Acta Zool. Fennica*, **190**: 405–408.
- WUNDERLICH, J. 1981. Fossile Zwergsechsaugenpinnen (Oonopidae) der Gattung *Orchestina* Simon, 1882 in Bernstein mit Anmerkungen zur Sexualbiologie (Arachnida: Araneae). *Mitt. Geol.-Paläont. Inst. Univ. Hamburg*, **51**: 83–113.
- WUNDERLICH, J. 1982. Die häufigsten spinnen (Araneae) des Dominikanischen bernsteins. *Neue Entomol. Nachr.*, **1**: 26–45.
- WUNDERLICH, J. 1986. *Spinnenfauna Gestern und Heute, 1. Fossile Spinnen in Bernstein und Ihre Heute Lebenden Verwandten*. Erich Bauer Verlag bei Quelle and Meyer, Wiesbaden.
- WUNDERLICH, J. 1987. *Tama minor*, n. sp., eine fossile Spinnerart der Familie Hersiliidae in Dominikanischem Bernstein (Arachnida: Araneae). *Entomol. Z.*, **97**: 93–96.
- WUNDERLICH, J. 1988. Die Fossilen Spinnen im Dominikanischen Bernstein. *Beitr. Araneol.*, **2**: 1–378.
- WUNDERLICH, J. 1998. Beschreibung der ersten fossilen Spinnen der Unterfamilien Mysmeninae (Anapidae) und Erigoninae (Linyphiidae) im Dominikanischen Bernstein (Arachnida, Araneae). *Entomol. Z.*, **108**: 363–367.
- WUNDERLICH, J. 1999. Two subfamilies of spiders (Araneae, Linyphiidae: Erigoninae and Anapidae: Mysmeninae) new to Dominican amber – or falsificated amber? *Est. Mus. Cienc. Nat. Àlava*, **14 (Num. Espec. 2)**: 167–172.
- WUNDERLICH, J. (ed.) 2004. Fossil spiders in amber and copal. *Beitr. Araneol.*, **3ab**: 1–1908.