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A CATALOG OF SPHECIDAE OF MADAGASCAR

compiled by

Wojciech J. Pulawski

California Academy of Sciences, Golden Gate Park, San Francisco, CA 94 118, USA

phone: (415) 750-7236; fax: (415) 750-7228; e-mail: wpulawski@calacademy.org

This catalog is meant to include a complete list of Sphecidae known to occur in Madagascar, with all bibliographic references pertaining to each. Genera and species are listed alphabetically. Data include a reference to the original descriptions, status of the type specimen, the type locality and type depository (in parentheses), as well as all subsequent references and synonyms. Full bibliographic citations can be found at www.calacademy.org (under Academy Research/Entomology/Resources/Bibliography of Sphecidae). Institutions where type specimens are deposited are abbreviated as follows:

BMNH: The Natural History Museum, London, formerly British Museum (Natural History), Great Britain;
CAS: California Academy of Sciences, San Francisco, California, USA;
DEI: Deutsches Entomologisches Institut, Eberswalde, Germany
FSAG: Faculté des Sciences Agronomiques de Gembloux, Belgium;
Genova: Museo Civico di Storia Naturale »Giacomo Doria«, Genova, Italy;
Kraków: Instytut Systematyki i Ewolucji Zwierząt, Polska Akademia Nauk, Kraków, Poland;
MHNB: Musée d'Histoire Naturelle de Bâle, Bâle (= Basel), Switzerland
MHNG: Musée d'Histoire Naturelle de Genève, Switzerland;
MNHN: Museum National d'Histoire Naturelle, Paris, France;
MRAC: Musée Royal de l'Afrique Centrale, Tervuren, Belgium;
Napoli: Istituto e Museo di Zoologia dell'Università di Napoli, Napoli, Italy
NHMW: Naturhistorisches Museum, Wien, Austria;
NRS: Naturhistoriska Riksmuseet, Stockholm, Sweden;
OXUM: Oxford University Museum, Hope Department of Entomology, Oxford, Great Britain;
SAM: South African Museum, Cape Town, South Africa;
SIF: Senckenbergisches Institut, Frankfurt, Germany;
TMP: Transvaal Museum, Pretoria, South Africa;
Torino: Museo Regionale di Scienze Naturali, Torino, Italy;
UK: The University of Kansas, Department of Entomology, Snow Entomological Museum, Lawrence, Kansas, USA;
USNM: United States National Museum of Natural History, Smithsonian Institution, Washington, D.C.;
ZIN: Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia;
ZMHU: Zoologisches Museum der Humboldt Universität, Berlin, Germany;
ZMK: Zoological Museum, Copenhagen, Denmark.

As discussed by Arnold (1945:188), the following species recorded from Madagascar by de Saussure (1892) actually do not occur there: *Ammophila laevigata* F. Smith, *Bembix olivacea* Fabricius, *Chlorion lobatum* (Fabricius), *Chlorion splendidum* Fabricius (as *Chlorion forficula* de Saussure), *Parapsammophila erythrocephala* (Fabricius), *Sphex sericeus* (Fabricius) (as *aurulentus* Fabricius), *Stizus ruficornis* Fabricius, and *Bembecinus tridentatus* (Fabricius). The occurrence of *Chalybion spinolae* (Lepelletier de Saint Fargeau), also listed by de Saussure, and of *Sceliphron spirifex*, listed by Friese (1900), was not confirmed by subsequent authors.

LIST OF GENERA AND SPECIES

ALYSSON

Alysson Panzer, 1806:169. Type species: *Pompilus spinosus* Panzer, 1801, designated by Morice and Durrant, 1915:406.

Alysson Jurine, 1807:195. Type species: *Pompilus spinosus* Panzer, 1801, by monotypy.

***madecassus* Arnold**

Alysson madecassus Arnold, 1945:50, ♀. Holotype: ♀, Madagascar: Behara (MNHN). – Leclercq, 1960a:100 (Madagascar); R. Bohart and Menke, 1976:458 (listed).

***seyrigi* Arnold**

Alysson seyrigi Arnold, 1945:49, ♀ (as *Seyrigi*, incorrect original capitalization). Holotype: ♀, Madagascar: Perinet (MNHN). – R. Bohart and Menke, 1976:458 (listed).

AMMATOMUS

Ammatomus A. Costa, 1859:36. Type species: *Gorytes coarctatus* Spinola, 1808, by monotypy.

***biguttatus* Arnold**

Ammatomus biguttatus Arnold, 1945:62, ♀, ♂. Syntypes: Madagascar: Antanimora, Behara, Bekily, Ivondro (MNHN). – Leclercq, 1961d:102 (Madagascar); R. Bohart and Menke, 1976:513 (listed); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 822 (in checklist of Nosy Boraha Sphecidae).

***fallax* Arnold**

Ammatomus fallax Arnold, 1945:61, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – R. Bohart and Menke, 1976:513 (listed); Leclercq, 1990b:118 (Madagascar).

***madecassus* (von Schulthess)**

Gorytes madecassus von Schulthess in Friederichs, 1918:48 (Madagascar: Diego Suarez). Nomen nudum.

Gorytes madecassus von Schulthess, 1918:99, ♀. Holotype: ♀, Madagascar: Diego Suarez (depository?). – **As *Ammatomus madecassus***: Arnold, 1945:64 (new combination, Madagascar; redescription); R. Bohart and Menke, 1976:513 (listed); Leclercq, 1990b:118 (Madagascar, Comoro Islands; prey: Flatidae, Cixiidae); Madl, 1997:822 (in checklist of Nosy Boraha Sphecidae).

***rubicundus* Arnold**

Ammatomus rubicundus Arnold, 1945:65, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – R. Bohart and Menke, 1976:513 (listed); Leclercq, 1990b:118 (Madagascar).

***seyrigi* Arnold**

Ammatomus seyrigi Arnold, 1945:59, ♀, ♂ (as *Seyrigi*, incorrect original capitalization). Syntypes: Madagascar: Antanimora, Bekily (MNHN). – R. Bohart and Menke, 1976:513 (listed); Hancock, Chahwanda, and Mhlanga, 1995:37 (syntypes in Bulawayo Museum).

AMMOPHILA

Ammophila W. Kirby, 1798:199. Type species: *Sphex sabulosus* Linnaeus, 1758, designated by International Commission on Zoological Nomenclature, 1946:571 (Opinion 180).

Ammophylus Latreille, 1802b:332. Lapsus or emendation of *Ammophila* W. Kirby, 1798.

Miscus Jurine, 1807:130, no included species. Type species: *Miscus campestris* (Latreille, 1809) [= *Ammophila campestris* Latreille, 1809], designated by Shuckard, 1837:79 (one of the two species first included in *Miscus* by Latreille, 1809:54).

Ammophilus Latreille, 1829:322. Lapsus or emendation of *Ammophila* W. Kirby, 1798.

Coloptera Latreille, 1845:387. Type species: *Coloptera barbara* Lepelletier, 1845, by monotypy.

Argyrammophila Gussakovskij, 1928a:7. Type species: *Ammophila induta* Kohl, 1901, by original designation.

Apocynema Leclercq, 1961c:211. Type species: *Ammophila fallax* Kohl, 1884 [= *Ammophila hungarica* Mocsáry, 1883], by original designation.

***beniniensis imerinae* de Saussure**

Ammophila imerinae de Saussure, 1892:435, ♂. Syntypes: ♂, Madagascar: Imerina, Antananarivo, Anosibé (MHNG). – Arnold, 1945:87 (as junior synonym of *Sphex beninensis*, Madagascar). – **As *Ammophila lugubris* var. *imerinae***: Kohl, 1909:371 (new status; Comoro Islands, Madagascar, Europa Island in Mozambique Channel). – **As *Ammophila beninensis imerinae***: R. Bohart and Menke, 1976:151 (new status, listed).

As *Ammophila rubiginosa*: de Saussure, 1892:435 (Madagascar), corrected to *Sphex beninensis* by Arnold, 1945:87; von Schulthess in Friederichs, 1918:48 (Madagascar: Diego Suarez), present correction.

AMMOPLANUS

Ammoplanus Giraud, 1869:469. Type species: *Ammoplanus perrisi* Giraud, 1869 [? = *Ammoplanus wesmaeli* Giraud, 1869], designated by Pate, 1937c:7.

Hoplocrabron De Stefani Perez, 1887:60. Type species: *Hoplocrabron marathroicus* De-Stefani, 1887, by monotypy. *Ammoplanellus* Gussakovskij, 1931b:442 (as subgenus of *Ammoplanus*). Type species: *Ammoplanus chorasmius* Gussakovskij, 1931, by original designation. Raised to genus status by R. Bohart in Bohart and Menke, 1976:42, and treated as subgenus by Marshakov (1976a, 1979).

Ceballosia Giner Marí, 1943c:285, junior homonym of *Ceballosia* Mercet, 1921. Type species: *Ammoplanus rjabovi* Gussakovskij, 1931, by original designation.

Parammoplanus Pate, 1939:391. Type species: *Ammoplanus apache* Pate, 1937, by original designation. Treated as subgenus of *Ammoplanellus* by R. Bohart in Bohart and Menke, 1976:42.

***brevicornis* Arnold**

Ammoplanus brevicornis Arnold, 1945:146, ♀ ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – Arnold, 1945:144 (in key); Leclercq, 1959a:25 (in key); R. Bohart and Menke, 1976:198 (listed).

***claripennis* Arnold**

Ammoplanus claripennis Arnold, 1945:147, ♀ ♀. Syntypes: ♀, Madagascar: Bekily (MNHN). – Arnold, 1945:144 (in key); Leclercq, 1959a:25 (in key). – **As *Ammoplanellus claripennis***: R. Bohart and Menke, 1976:198 (new combination, listed).

***egregius* Arnold**

Ammoplanus egregius Arnold, 1945:148, ♂. Holotype: ♂, Madagascar: Bekily (MNHN). – Arnold, 1945:144 (in key); Leclercq, 1959a:25 (in key); R. Bohart and Menke, 1976:198 (listed).

***jucundus* Arnold**

Ammoplanus jucundus Arnold, 1945:145, ♀ ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – Arnold, 1945:144 (in key); Leclercq, 1959a:25 (in key); R. Bohart and Menke, 1976:198 (listed); Leclercq, 1990b:120 (Madagascar).

***madecassus* Kohl**

Ammoplanus madecassus Kohl, 1909:374, ♀ ♀. Holotype: ♀, Madagascar: Toliara (ZMHU or SIF) – Arnold, 1945:144 (in key); Pate, 1937a:104 (placed in subgenus *Ammoplanellus*); Leclercq, 1959a:26 (in key). – **As *Ammoplanellus madecassus***: R. Bohart and Menke, 1976:198 (new combination, listed).

***orientalis* Arnold**

Ammoplanus madecassus var. *orientalis* Arnold, 1945:148, ♀. Holotype: ♀, Madagascar: Bekily (MNHN). – Arnold, 1945:144 (in key); Leclercq, 1959a:25 (in key). – **As *Ammoplanellus orientalis***: R. Bohart in Bohart and Menke, 1976:200 (new combination, new status).

AMPULEX

Ampulex Jurine, 1807:132. Type species: *Chlorion compressum* of Latreille and of Fabricius [= *Chlorion compressum* (Fabricius, 1804) = *Sphex compressus* Fabricius, 1781, designated by Audouin, 1822:301.

Pronaesus Latreille, 1809:56. Type species: *Dryinus aeneus* Fabricius, 1804, designated by Latreille, 1810:438.

Lorrhoeum Shuckard, 1837:18. Type species: *Chlorion compressum* (Fabricius, 1804) [= *Sphex compressus* Fabricius, 1781], by original designation and monotypy.

Rhinopsis Westwood, 1844:68. Type species: *Rhinopsis abbotti* Westwood, 1844 [= *Ampulex canaliculata* Say, 1823, by monotypy.

Waagenia Kriechbaumer, 1874:55. Type species: *Waagenia sikkimensis* Kriechbaumer, 1874, by monotypy.

Chlorampulex de Saussure, 1892:441. Type species: *Sphex compressus* Fabricius, 1781, designated by Pate, 1937c:18.

compressa (Fabricius)

Sphex compressus Fabricius, 1781:445, sex not indicated (as *compressa*, incorrect original termination). Holotype or syntypes: India: Kerala: Malabar (BMNH, Banks coll.). – Fabricius, 1787:275 (...), 1793:206 (...). – **As *Chlorion compressum***: Fabricius, 1804:219 (new combination, redescription); Gistel, 1848:142 (Bourbon Island, description); Lucas, 1879:CLIX (prey: *Blatta americana*). – **As *Chlorampulex compressa***: de Saussure, 1892:443 (in key), 445 (new combination, redescription, Madagascar); Nagy, 1971:103 (s. India, Singapore). – **As *Ampulex compressa***: Jurine, 1807:134 (new combination, comparison with *Ampulex fasciata*); Spinola, 1841:100 (diagnostic characters); Dahlbom, 1843:29 (redescription), 1845:439 (in key); F. Smith, 1856:268 (listed, wing venation variable), 1858a:99 (Moluccas, Borneo); Motschulsky, 1863:24 (Sri Lanka); Taschenberg, 1869:407 (India); Gerstaecker, 1871:852 (Kenya: Mombasa, Tanzania: Wanga); Radoszkowski, 1891:580 (male genitalia); Kohl, 1893d:474, 482 (redescribed in key), 491 (listed, synonymy), 1883e:183 (Zanzibar); Pérez, 1895b:210 (Seychelles Islands, as *compressus*); Bingham, 1896a:441 (Sri Lanka: Pundaluoya), 1897:254 (redescription; Oriental Region to Africa); Dalla Torre, 1897:373 (listed); Bingham, 1902:217 (Pemba Island), 1903a:67 (Pemba Island); Cameron, 1903c:238 (listed); Rothney, 1903:105 (India: West Bengal: Barrackpore); Ashmead, 1904d:151 (Philippines); Cameron, 1907e:76 (Seychelles Islands); Vachal, 1907:114 and 1908:23 (New Caledonia, as *compressus*); Kohl, 1909:369 (Kenya: Mombasa; Tanzania: Pemba Island); Turner, 1911b:368 (Seychelles Islands); Bordage, 1912:71 (Réunion Island: life history); Dutt, 1912:227 (preying on *Periplaneta americana*, dragging paralyzed prey); R. Turner, 1919b:238 (New Caledonia); Arnold, 1928a:221 (revision); Williams, 1942:221 (life history); Giner Mari, 1945c:850 (India: Maharashtra: Bandra); Van Zwaluwenburg, 1950:14 (new to Molokai, Hawaii); Leclercq, 1954b:150 (Mauritius, Zanzibar, Ethiopia: Daghabur), 1961d:101 (Saussure's records from Madagascar are doubtful); van der Vecht, 1961a:11 (study of type); Guiglia, 1964:309 (southern Arabia); Begum and Bose, 1976:26 (Bangladesh: Dakka); R. Bohart and Menke, 1976:77 (listed); Leclercq, 1976b:201 (St. Helena Island), 202 (Madagascar); Krombein, 1979a:6 (Sri Lanka, revision); Casolari and Casolari Moreno, 1980:110 (specimens in M. Spinola collection); Piek, Visser, and Veenendaal, 1984:195 (hunting and ovipositing, effects of sting on prey behavior); Wu and Chou, 1985:154 (in key); Begum, Bose, and Howlander, 1989:127 life history in Bangladesh); Leclercq, 1990b:114 (Madagascan records questionable); Begum, Khan, and Bose, 1995:174 (Bangladesh: Dhaka University Campus); Wu and Zhou, 1996:22 (revision in Economic Insect Fauna of China); Wcislo, 1998:181 (proportions of antennae in relations to parasitic/non-parasitic behavior); Libersat, Haspel, Casagrand, and Fouad, 1999:333 (the sting of prey's subesophageal ganglion blocks fast motoneurons); Weisel-Eichler, Haspel, and Libersat, 1999:957 (sting induces prolonged grooming in prey).

Ampulex sinensis de Saussure, 1867:43, ♂. Holotype or syntypes: ♂, China: Hong Kong (NHMW). Synonymized with *Ampulex compressa* by Gerstaecker, 1871:852

Chlorampulex striolata de Saussure, 1892:446, ♀. Holotype or syntypes: ♀, Tanzania: Zanzibar: no specific locality (MHNG). – de Saussure, 1892:443 (in key). – **As *Ampulex striolata***: Kohl, 1893d:502 (new combination, original description copied); Dalla Torre, 1897:377 (listed); Arnold, 1928a:227 (original description translated into English).

ASTATA

Astata Latreille, 1796:xiii. Emendation of *Astatus* Latreille, 1796:114.

Astatus Latreille, 1796:114 (no species included). Type species: *Tiphia abdominalis* Panzer, 1798 [= *Sphex boops* Schrank, 1781], designated by Latreille, 1802b:337 (first included species). See also International Commission on Zoological Nomenclature, 1943a, Opinion 139.

Dimorpha Panzer, 1806:26. Type species: *Tiphia abdominalis* Panzer, 1798 [= *Sphex boops* Schrank, 1781], by monotypy.

***blanda* de Saussure**

Astatus blandus de Saussure, 1892:519, ♂. Syntypes: ♂, Madagascar: Anosibé in Bezanozano Province (MHNG). – **As *Astata blanda***: Arnold, 1945:43 (in key); R. Bohart and Menke, 1976:212 (listed); Leclercq, 1990b:114 (Madagascar: Tsimbazaza; keyed).

***minax* Arnold**

Astata minax Arnold, 1945:43, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – R. Bohart and Menke, 1976:212 (listed); Leclercq, 1990b:114 (Madagascar, keyed); Hancock, Chahwanda, and Mhlanga, 1995:37 (one syntype in Bulawayo Museum).

***ruficaudata hova* Arnold**

Astata ruficaudata hova Arnold, 1945:46, ♀, ♂. Syntypes: Madagascar: Behara, Bekily (MNHN). – Leclercq, 1960a:96 (Madagascar); R. Bohart and Menke, 1976:213 (listed); Leclercq, 1990b:114 (Madagascar, keyed); Hancock, Chahwanda, and Mhlanga, 1995:37 (syntypes in Bulawayo Museum).

***rufofemorata* Arnold**

Astata rufofemorata Arnold, 1945:44, ♀, ♂. Syntypes: Madagascar: Behara, Bekily (MNHN). – Leclercq, 1960a:97 (Madagascar); R. Bohart and Menke, 1976:213 (listed); Leclercq, 1990b:114 (in key), 115 (Madagascar); Hancock, Chahwanda, and Mhlanga, 1995:37 (syntypes in Bulawayo Museum).

BEMBECINUS

Bembecinus A. Costa, 1859:4. Type species: *Bembecinus meridionalis* A. Costa, 1859, by monotypy.

Stizomorphus A. Costa, 1859:7. Type species: *Vespa tridens* Fabricius, 1781, by monotypy.

Gorystizus Minkiewicz, 1934:252. Not available: type species not designated (Article 13b).

Gorystizus Pate, 1937c:29. Type species: *Vespa tridens* Fabricius, 1781, by original designation. Validation of *Gorystizus* Minkiewicz, 1934.

Lavia Rayment, 1953:23. Nomen nudum.

***assentator* (Arnold)**

Stizus assentator Arnold, 1945:72, ♂. Syntypes: Madagascar: Bekily (MNHN). – **As *Bembecinus assentator***: Leclercq, 1961d:102 (Madagascar, new combination); R. Bohart and Menke, 1976:530 (listed); Leclercq, 1990b:118 (Madagascar; male sternum VII dentate).

***brooksi* R. Bohart**

Bembecinus brooksi R. Bohart, 1997a:172, ♀, ♂. Holotype: ♂, Madagascar: Toliara: Beza Mahafaly Reserve (UK).

***hirtiusculus* (Arnold)**

Stizus hirtiusculus Arnold, 1945:74, ♂, ♀. Syntypes: Madagascar: Antanimora, Bekily (MNHN). – **As *Bembecinus hirtiusculus***: R. Bohart and Menke, 1976:531 (new combination).

***mirus* (Arnold)**

Stizus mirus Arnold, 1945:69, ♂, ♀. Syntypes: Madagascar: Amboasary, Behara, Bekily (MNHN). – Leclercq, 1960a:100 (Madagascar); Hancock, Chahwanda, and Mhlanga, 1995:40 (syntypes in Bulawayo Museum). – **As *Bembecinus mirus***: Leclercq, 1961d:103 (Madagascar, new combination); R. Bohart and Menke, 1976:531

(listed); Leclercq, 1990b:119 (Madagascar); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 822 (in checklist of Nosy Boraha Sphecidae).

***rectilateralis* (Arnold)**

Stizus rectilateralis Arnold, 1945:75, ♀. Syntypes: Madagascar: Antanimora, Ranomafana (MNHN). – **As *Bembecinus rectilateralis***: Leclercq, 1961d:103 (new combination); R. Bohart and Menke, 1976:532 (listed).

***spicornis* (de Saussure)**

Stizolarra spicornis de Saussure, 1887:9, ♂. Holotype: ♂, Madagascar: no specific locality (MNHN); see de Saussure, 1892:468 for type status. – **As *Stizolarra spicornis***: de Saussure, 1892:467 (Madagascar, redescription). – **As *Stizus spicornis***: Handlirsch, 1892:42 (new combination, original description copied), 1895:972 (redescription); Dalla Torre, 1897:531 (listed). – **As *Bembecinus spicornis***: R. Bohart and Menke, 1976:532 (listed); Leclercq, 1990b:119 (Madagascar, type in MNHN); R. Bohart, 1997a:177 (discussion of synonymy with *varians*); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 822 (in checklist of Nosy Boraha Sphecidae).

Stizus varians Arnold, 1945:73, ♂. Syntypes: Madagascar: Bekily (MNHN). Synonymized with *Bembecinus spicornis* by Leclercq, 1990b:119. – **As *Bembecinus varians***: Leclercq, 1961d:103 (Madagascar, new combination); R. Bohart and Menke, 1976:532 (listed).

***wenzeli* R. Bohart**

Bembecinus wenzeli R. Bohart, 1997a:176, ♀, ♂. Holotype: ♂, Madagascar: Toliara: 38 km N Toliara (KU).

BEMBIX

Variant but improper spellings: *Bembex* and *Bembyx* (transfer from *Bembex* to *Bembix* does not require parentheses for the author: Article 51.3)

Bembix Fabricius, 1775: Characteres Generum, p. [= xxiii], no included species. Type species: *Bembex rostrata* of Fabricius, 1781 [= *Apis rostrata* Linnaeus, 1758], designated by Latreille, 1810:438 (one of three species included in *Bembyx* by Fabricius, 1775:361). Morice and Durrant (1915:400) gave the first type species designation for the spelling of *Bembix*: *Apis rostrata* Linnaeus, 1757.

Bembyx Fabricius, 1775:361. Lapsus for *Bembix* Fabricius, 1775.

Bembex Fabricius, 1776:122. Emendation of *Bembix* Fabricius, 1775.

Apobembex Pate, 1937c:9. Type species: *Bembex oculata* of Latreille, 1805 [= *Bembex oculata* Panzer, 1801], by original designation.

Epibembex Pate, 1937c:26. Type species: *Apis rostrata* Linnaeus, 1758, by original designation.

***hova* de Saussure**

Bembex hova de Saussure, 1892:457, ♀, ♂ (♂ = *Bembex madecassa*). Lectotype: ♀, Madagascar: Antananarivo (MHNG), designated by Leclercq, 1961d:104. – Nec de Saussure, 1892:458 (♂ only) and Handlirsch, 1893:734 (♂ only) = *Bembix madecassa*; Kohl, 1909:373 (Madagascar: Andranohinaly). – **As *Bembix hova***: Arnold, 1945:81 (Madagascar; redescription); Leclercq, 1960a:100 (Madagascar), 1961d:104 (Madagascar; in key); Bohart and Menke, 1976:546 (listed); Madl, 1997:821 (Madagascar: Nosy Boraha Island), 822 (in checklist of Nosy Boraha Sphecidae).

As *Bembex madecassa*: Handlirsch, 1893:734, ♂ (Madagascar), corrected to *Bembix hova* by Arnold, 1945:81.

***latebrosa* Kohl**

Bembex latebrosa Kohl, 1909:373, ♀, ♂. Syntypes: Madagascar: Tuléar (ZMHU or SIF). – **As *Bembix latebrosa***: Arnold, 1945:83 (Madagascar; redescription); Leclercq, 1960a:100 (Madagascar), 1961d:104 (in key), 105 (Madagascar); Bohart and Menke, 1976:547 (listed).

***madecassa* de Saussure**

Bembex madecassa de Saussure, 1890: pl. 11, fig. 2, ♀. Holotype: ♀, illustrated specimen, Madagascar: no specific locality (MHNG). – de Saussure, 1892:456 (Madagascar, redescription); Handlirsch, 1893c:818 (revision),

1895:1003 (Comoro Islands); Kohl, 1909:373 (Madagascar: Tamatave, Toliara); R. Turner, 1911b:371 (Seychelles Islands). – **As *Bembix madecassa***: J. Parker, 1929:139 (revision); Arnold, 1945:79 (Madagascar; redescription); Leclercq, 1960a:100 (Madagascar), 1961d:104 (in key), 105 (Madagascar); Bohart and Menke, 1976:547 (listed); Madl, 1997:821 (Madagascar: Nosy Boraha Island), 822 (in checklist of Nosy Boraha Spheciidae).

Bembix militaris de Saussure, 1890: pl. 11, figs. 3, ♀. Holotype: ♀, illustrated specimen, Madagascar: no specific locality (ZMHU). Synonymized with *Bembix madecassa* by Arnold, 1945:79.

Bembix madecassa de Saussure, 1891:260, ♀. Objective synonym of *Bembix madecassa* de Saussure, 1891. Lectotype: ♀, Madagascar: Antananarivo (MHNG), unnecessary designation by Leclercq, 1961d:105. – de Saussure, 1892:456 (Madagascar, redescription).

Bembix militaris de Saussure, 1891:260, ♀. Objective synonym of *Bembix militaris* de Saussure, 1890. Lectotype: ♀, Madagascar: no specific locality (MHNG), unnecessary designation by Leclercq, 1961d:105

Bembix militaris de Saussure, 1892:459, ♀. Objective synonym of *Bembix madecassa* de Saussure, 1890.

Bembix crinita de Saussure, 1891:260, ♀. Lectotype: ♀, Madagascar: no specific locality (MHNG), designated by Leclercq, 1961d:105. Synonymized with *Bembix madecassa* by de Saussure, 1892:456.

As *Bembix hova*: de Saussure, 1892:458 (♂ only) and Handlirsch, 1893c:734 (revision, ♂ only), ♀ corrected to *Bembix madecassa* by Arnold, 1945:79.

CARINOSTIGMUS

Carinostigmus Tsuneki, 1954a:3. Type species: *Stigmus congruus* Walker, 1860, by original designation.

Perissostigmus Krombein, 1984c:18, as subgenus of *Carinostigmus*. Type species: *Carinostigmus bucheilus* Krombein, by original designation and monotypy.

nubilipennis (Arnold)

Stigmus nubilipennis Arnold, 1945:149, ♀, ♂. Syntypes: Madagascar: Ambositra, Bekily, Ivondro, Ranomafana (MNHN). – Arnold, 1945:149 (in key). – **As *Carinostigmus nubilipennis***: R. Bohart and Menke, 1976:191 (listed; new combination).

tenellus (Arnold)

Stigmus tenellus Arnold, 1945:151, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – Arnold, 1945:149 (in key). – **As *Carinostigmus tenellus***: R. Bohart and Menke, 1976:191 (listed; new combination).

CERCERIS

Cerceris Latreille, 1802b:367. Type species: *Philanthus ornatus* Fabricius, 1790 [= *Sphex rybyensis* Linnaeus, 1771], designated by Latreille, 1810:438.

Nectanebus Spinola, 1839:489. Type species: *Nectanebus fischeri* Spinola, 1839, secondary homonym of *Cerceris fischeri* Spinola, 1839 [= *Nectanebus histerisnicus* Spinola, 1839], designated by Pate, 1937c:42 (said to be by original designation). Synonymized with *Cerceris* Latreille, 1802, by R. Bohart and Menke, 1976:55.

Diamma Dahlbom, 1844:225. Type species: *Diamma spinolae* Dahlbom, 1844 [= *Cerceris binodis* Spinola, 1841], by monotypy. Junior homonym of *Diamma* Westwood, 1835.

Didesmus Dahlbom, 1845:502 Replacement name for *Diamma* Dahlbom, 1844.

Apiratrix Shestakov, 1923:101. Type species: *Cerceris rybyensis* (Linnaeus, 1771) [= *Sphex rybyensis* Linnaeus, 1771], by original designation. – *Apiratrix* Balthasar, 1972:387 and 397 (lapsus).

Paracerceris Brèthes, 1913b:127. Type species: *Paracerceris tridentifera* Brèthes, 1913 [= *Cerceris pollens* Schletterer, 1887, by monotypy.

Apicerceris Minkiewicz, 1934:253. Not available: type species not designated (Article 13b).

Bucerceris Minkiewicz, 1934:253. Type species: *Cerceris bupresticida* Dufour, 1841, by monotypy.

Stercobata Gussakovskij, 1935:445. Type species: *Cerceris bupresticida* Dufour, 1841, by monotypy.

Apicerceris Pate, 1937c:8. Type species: *Sphex rybyensis* Linnaeus, 1771, by original designation. Validation of *Apicerceris* Minkiewicz, 1934.

***aemula* Arnold**

Cerceris aemula Arnold, 1945:37, ♀, ♂. Syntypes: Madagascar: Bekily, Ivondro (MNHN). – Empey, 1969a:300 (listed); R. Bohart and Menke, 1976:576 (listed); Empey, 1983:163 (type examined, reference to holotype incorrect).

***aemuloides* Leclercq**

Cerceris aemuloides Leclercq, 1962b:209, ♀. Holotype: ♀, Madagascar: Rogez (MRAC). – R. Bohart and Menke, 1976:579 (listed); Empey, 1983:163 (listed).

***argentifrons* Guérin-Méneville**

Cerceris argentifrons Guérin-Méneville, 1844:445, [♀]. Lectotype: ♀, Madagascar: no specific locality (Genova), designated by Guiglia, 1948b:179 (Article 74.6). – F. Smith, 1856:450 (listed); Schletterer, 1887:486 (listed); de Saussure, 1892:555 (original description copied); Guiglia, 1948b:179 (type in Genova), 187 (redescription). – Leclercq, 1961d:102 (Madagascar), 1962b:211 (Madagascar: Bekily); Empey, 1969a:301 (listed); R. Bohart and Menke, 1976:577 (listed); Empey, 1983:164 (listed).

Cerceris albotegulata Arnold, 1945:40, ♀, ♂. Syntypes: Madagascar: Antanimora, Bekily, Behara, Ivondro (MNHN). Synonymized with *Cerceris argentifrons* by Guiglia, 1948b:187, by Leclercq, 1961d:102, and conditionally by Empey, 1969a:301. – R. Bohart and Menke, 1976:577 (as questionable synonym of *Cerceris argentifrons*); Empey, 1983:164 (reference to holotype is incorrect); Hancock, Chahwanda, and Mhlanga, 1995:37 (syntypes in Bulawayo Museum).

***beharensis* Leclercq**

Cerceris beharensis Leclercq, 1967b:63, ♂. Holotype: ♂, Madagascar: Behara (MNHN). – R. Bohart and Menke, 1976:577 (listed); Empey, 1983:166 (listed).

***clypearis* de Saussure**

Cerceris clypearis de Saussure, 1887:25, ♀. Holotype or syntypes: ♀, Madagascar: no specific locality (MNHN, now probably lost: Empey, 1983:167). – de Saussure, 1892:541 (Madagascar, redescription); Arnold, 1945:22 (Madagascar, redescription); Empey, 1969a:303 (listed); R. Bohart and Menke, 1976:579 (listed); Empey, 1983:167 (type material missing).

***dentiventris* Arnold**

Cerceris dentiventris Arnold, 1945:35, ♀, ♂. Syntypes: Madagascar: Behara, Bekily, Ivondro (MNHN). – R. Bohart and Menke, 1976:579 (listed); Empey, 1983:167 (listed, holotype examined); Madl, 1997:821 (Madagascar: Nosy Boraha Island, as *dentriventris*), 822 (in checklist of Nosy Boraha Sphecidae, as *dentriventris*).

***duchesnei* Arnold**

Cerceris duchesnei Arnold, 1945:31, ♀, ♂ (as *Duchesnei*, incorrect original capitalization). Syntypes: Madagascar: Ambovimbimbi, Antananarivo, Bekily (MNHN). – Leclercq, 1961d:102 (Madagascar); Empey, 1969a:305 (listed, as *duchmesei*); R. Bohart and Menke, 1976:580 (listed); Empey, 1983:169 (listed, holotype examined).

***formidolosa* de Saussure**

Cerceris formidolosa de Saussure, 1890:pl. 10, Fig. 9, ♀. Lectotype: ♀, Madagascar: no specific locality (MHNG), designated by Empey, 1983:171 (Article 74.6). – de Saussure, 1892:547 (Madagascar, redescription); Dalla Torre, 1897:461 (in catalog of world Hymenoptera); Arnold, 1945:41 (Madagascar, redescription); Leclercq, 1962b:211 (Madagascar: Rogez); Empey, 1969a:308 (listed); R. Bohart and Menke, 1976:581 (listed); Madl, 1997:821 (Madagascar: Nosy Boraha Island), 822 (in checklist of Nosy Boraha Sphecidae).

Cerceris formidolosa de Saussure, 1891:261, ♀. Objective synonym of *Cerceris formidolosa* de Saussure, 1890.

***gallienii* Arnold**

Cerceris gallienii Arnold, 1945:32, ♀, ♂ (as *Gallienii*, incorrect original capitalization). Lectotype: ♀, Madagascar: Fort Dauphin (MNHN), designated by Empey, 1983:172 (Article 74.6). – Leclercq, 1962b:211 (Madagascar: Rogez); Empey, 1969a:308 (listed); R. Bohart and Menke, 1976:581 (listed, as *gallieni*); Empey, 1983:172 (listed); Hancock, Chahwanda, and Mhlanga, 1995:37 (syntypes in Bulawayo Museum).

Cerceris augagneuri Arnold, 1945:34, ♀, ♂ (as *Augagneuri*, incorrect original capitalization). Syntypes: Madagascar: Antsirabé (MNHN). Synonymized with *Cerceris gallienii* by Leclercq, 1962b:211. – Empey, 1969a:302 (listed); R. Bohart and Menke, 1976:577 (listed); Empey, 1983:165 (listed, type examined).

ssp. *bekiliensis* Arnold

Cerceris Gallienii var. *bekiliensis* Arnold, 1945:34, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN), designated by Empey, 1983:173 (Article 74.6). – As *Cerceris gallieni bekilensis*: Empey, 1969a:308 (new status, listed); R. Bohart and Menke, 1976:581 (listed); Empey, 1983:172 (listed).

***hildebrandti* de Saussure**

Cerceris hildebrandti de Saussure, 1891:261, ♀ (as *Hildebrandti*, incorrect original capitalization). Holotype or syntypes: Madagascar: ♀, no specific locality (missing: Empey, 1983:173). – Empey, 1969a:301 (listed); R. Bohart and Menke, 1976:582 (listed).

***lateridentata* Arnold**

Cerceris lateridentata Arnold, 1945:26, ♀, ♂. Lectotype: ♀, Madagascar: Ivondro (MNHN), designated by Empey, 1983:177 (Article 74.6). – Empey, 1969a:312 (listed); R. Bohart and Menke, 1976:583 (listed).

***nenicra* de Saussure**

Cerceris nenicra de Saussure, 1887:25, ♀, ♂. Lectotype: ♀, Madagascar: Nosibe (MHNG), designated by Empey, 1983:180. – R. Bohart and Menke, 1976:584 (listed). – As *Cerceris nenitra* (a misspelling): de Saussure, 1892:551 (Madagascar, redescription); R. Turner, 1911b:370 (Seychelles Islands); Arnold, 1945:42 (Madagascar; redescription); Vesey-Fitzgerald, 1956b:362 (Seychelles, as *renitra*); Leclercq, 1961d:102 (Madagascar), 1962b:212 (Madagascar); Empey, 1969a:316 (listed).

Cerceris perfoveata Arnold, 1947:167, ♀. Holotype: ♀, Madagascar: Ivondro (MNHN). Synonymized with *Cerceris nenicra* by Empey, 1983:180. – Empey, 1969a:318 (listed, possibly dark form of *Cerceris nenitra*); R. Bohart and Menke, 1976:585 (listed).

***paleata* de Saussure**

Cerceris paleata de Saussure, 1891:262, ♀. Lectotype: ♀, Madagascar: Andreagoloka (MHNG), designated by Empey, 1983:182 (Article 74.6). – de Saussure, 1892:543 (Madagascar, redescription); Arnold, 1945:24 (Madagascar; redescription); Leclercq, 1962b:212 (Madagascar: Mandraka); Empey, 1969a:318 (listed); R. Bohart and Menke, 1976:585 (listed).

Cerceris carnaria de Saussure, 1892:545, ♂. Lectotype: ♂, Madagascar: Antananarivo and Bezanozano Province: Anosibé (MHNG). Synonymized with *Cerceris paleata* by Arnold, 1945:24.

***perfida* de Saussure**

Cerceris perfida de Saussure, 1890:pl. 19 fig. 10, ♀. Holotype: ♀, illustrated specimen, Madagascar: no specific locality (MHNG). – de Saussure, 1892:549 (Madagascar, redescription); Arnold, 1945:23 (Madagascar; redescription); Leclercq, 1962b:212 (Madagascar: Rogez); Empey, 1969a:318 (listed); R. Bohart and Menke, 1976:585 (listed); Empey, 1983:183 (listed, type examined); Hancock, Chahwanda, and Mhlanga, 1995:38 (specimen in Bulawayo Museum).

Cerceris perfida de Saussure, 1891:262, ♀. Objective synonym of *Cerceris perfida* de Saussure, 1890.

Cerceris spinifrons de Saussure, 1891:262, ♂. Holotype or syntypes: ♂, Madagascar: no specific locality (MHNG), type missing: Empey, 1983:183). Synonymized with *Cerceris perfida* by Arnold, 1945:23.

***petiolata* de Saussure**

Cerceris petiolata de Saussure, 1891:261, ♂. Lectotype: ♂, Madagascar: Andreagoloka (MHNG), designated by Empey, 1983:183. – Arnold, 1945:38 (Madagascar; redescription); Empey, 1969a:318 (listed); R. Bohart and Menke, 1976:585 (listed); Empey, 1983:183 (listed).

Cerceris petiolata de Saussure, 1892:555, ♂. Objective synonym of *Cerceris petiolata* de Saussure, 1891.

***rasoherinae* Arnold**

Cerceris rasoherinae Arnold, 1945:29, ♀, ♂ (as *Rasoherinae*, incorrect original capitalization). Lectotype: ♀, Madagascar: Bekily (MNHN), designated by Empey, 1983:184 (Article 74.6). – Empey, 1969a:320 (listed); R. Bohart and Menke, 1976:586 (listed).

Cerceris rasoherinae var. *debilis* Arnold, 1945:30, ♀, ♂. Lectotype: ♀, Madagascar: Bekily (MNHN), designated by Empey, 1983:185 (Article 74.6). Synonymized with *Cerceris rasoherinae* by Empey, 1983:202. – As *Cerceris rasoherinae debilis*: Empey, 1969a:320 (new status); R. Bohart and Menke, 1976:586 (listed).

***seyrigi* Arnold**

Cerceris seyrigi Arnold, 1945:27, ♀, nec ♂ (as *Seyrigi*, incorrect original capitalization). Lectotype: ♀, Madagascar: Bekily (MNHN), designated by Empey, 1983:188 (Article 74.6). – Empey, 1969a:322 (listed); R. Bohart and Menke, 1976:587 (listed); Empey, 1983:188 (the ♂ described by Arnold is an undescribed species).

***spirans* de Saussure**

Cerceris spirans de Saussure, 1892:553, ♀, ♂. Lectotype: ♀, Madagascar: Bezanozano Province: Anosibé (MHNG), designated by Empey, 1983:189. – Arnold, 1945:19 (citation); Empey, 1969a:323 (listed); R. Bohart and Menke, 1976:587 (listed).

***xanthostigma* Arnold**

Cerceris xanthostigma Arnold, 1945:39, ♀. Holotype: ♀, Madagascar: Rogez in East Coast Forest (MNHN). – R. Bohart and Menke, 1976:589 (listed); Empey, 1983:193 (listed, type examined).

CHLORION

Chlorion Latreille, 1802b:333. Type species: *Sphex lobatus* Fabricius, 1775, by monotypy.

Chlorium W. Schulz, 1906:193. Emendation of *Chlorion* Latreille, 1802.

***maxillosum ciliatum* (Fabricius)**

Sphex ciliatus Fabricius, 1787:275, sex not indicated (as *ciliata*, incorrect original termination). Holotype: ♀, India (in error): no specific locality (ZMK). – Dalla Torre, 1897:418 (listed). – As *Pronoëus ciliatum*: Dahlbom, 1845:XXII (new combination, listed). – As *Chlorion ciliatum*: Fabricius, 1804:218 (new combination, redescription); van der Vecht, 1961a:35 (redescription of holotype); Leclercq, 1969:1047 (Congo Brazzaville). – As *Chlorion maxillosum ciliatum*: R. Bohart and Menke, 1976:90 (listed); Dollfuss, 1990:122 (Central African Republic).

Sphex xanthoceros Illiger, 1801:193, ...: Sierra Leone (...). Synonymized with *Chlorion ciliatum* by van der Vecht, 1961a:36. – Strand, 1916b:102 (Angola: Benguela; original description copied and discussed). – As *Sphex xanthoceros*: Kohl, 1890:183 (revision), 1883e:183 (Tanzania: Bagamoyo); Bingham, 1902:215 (Malawi); Brauns, 1911a:118 (South Africa: Orange Free State); Morice, 1911:74 (Algeria: Bône); Bischoff, 1912:221 (Zaire: Kivu: N shore of Lake Kivu); Mantero, 1915:324 (Libya); Gennerich, 1922:41 (morphology); Berland, 1925c:154 (Angola), 1926b:164 (miscellaneous locality records); Schouteden, 1930:95 (Zaire); Valdeyron-Fabre, 1952:107 (prey: *Brachytrypes megacephalus* Lapeletier), 1955:152 (preying behavior); Berland, 1956:1162 (in revision of African Sphecini). – As *Chlorion xanthoceros*: Arnold, 1928c:347 (revision), 1943:77 (Zaire). – As *Chlorion xanthoceros*: Leclercq, 1955h:40 (bibliographic references, variation), 43 (locality records), 1955i:405 (Rwanda), 1961b:47 (Zaire, as *xanthoceros xanthoceros*).

Chlorion mandibulare Fabricius, 1804:218, ♀. Syntypes: Guinea: no specific locality (ZMK). Synonymized with *Sphex xanthoceros* by Kohl, 1890:183. – de Saussure, 1867:37 (review of variation). – As *Pronoëus mandibularis*: F. Smith, 1856:239 (listed); Magretti, 1884b:578 (Sudan: Bahr el Salaam); Casolari and Casolari Moreno,

1980:110 (specimens in M. Spinola collection). – **As *Sphex mandibularis***: Kohl, 1885b:175 (in revision of Palearctic *Sphex*); Ed. André, 1888:122 (in revision of Sphecidae of Europe and Algeria), 6* (bibliographic references). – **As *Chlorion ciliatum mandibulare***: van der Vecht, 1961a:37 (new status, redescription of syntypes).

Pepsis maxillaris Palisot de Beauvois, 1805: :37, sex not indicated. Holotype or syntypes: Kingdom of Owara, now Nigeria: Warri (destroyed?). – **As *Pronaesus maxillaris***: Lepeletier de Saint Fargeau, 1845:331 (revision); F. Smith, 1856:239 (listed); Radoszkowski, 1881:211 (Angola); Magretti, 1884b:579 (Sudan: Bahr el Salaam); Bradley, 1957:43 (Lepeletier's specimens in Turin); Casolari and Casolari Moreno, 1980:110 (specimens in M. Spinola collection). – **As *Sphex maxillaris***: Schouteden, 1930:95 (Zaire). – **As *Sphex xanthocerus* var. *maxillaris***: Kohl, 1883e:183 (Mozambique); W. Fox, 1896e:551 (Ethiopia: the Haud tribal area); Bischoff, 1912:221 (border of Zaire and Uganda); Berland, 1952b:275 (boundary of Ivory Coast, Guinea, and Liberia: Mt. Nimba), 1956:1163 (in revision of African Sphecini). – **As *Chlorion maxillaris***: Gribodo, 1894:137 (Mozambique: Magnarra River). – **As *Chlorion xanthocerus* var. *maxillaris***: Arnold, 1928c:348 (revision); Scott in Arnold, 1933a:370 (Ethiopia: Harar District and Buno, as *maxillare*); Guiglia, 1940b:287 (Somalia). – **As *Chlorion xanthocerus maxillaris***: Arnold, 1943:78 (Zaire); de Beaumont, 1962b:32 (redescription). – **As *Chlorion xanthoceros maxillare***: Leclercq, 1955h:43 (locality records), 1961b:48 (Zaire).

Chlorion varipenne Reiche and Fairmaire, 1850:451, sex not indicated. Holotype or syntypes: Ethiopia: no specific locality (MNHN?). Synonymized with *Sphex xanthocerus* by Kohl, 1890:183. – F. Smith, 1856:246 (listed).

Pronaesus instabilis F. Smith, 1856:240, ♂, ♀. Syntypes: Guinea, Congo: no specific locality (BMNH). Synonymized with *Chlorion ciliatum* by van der Vecht, 1961a:36. – Synonymized with *Sphex xanthocerus* by Kohl, 1890:183. – Magretti, 1884b:580 (Sudan: Bahr el Salaam). – **As *Sphex xanthocerus* var. *instabilis***: Schouteden, 1930:95 (Zaire); Berland, 1956:1164 (in revision of African Sphecini). – **As *Chlorion xanthocerus* var. *instabilis***: Arnold, 1928c:349 (original description copied). – **As *Chlorion xanthoceros instabile***: Leclercq, 1955h:44 (locality records), 1961b:48 (Zaire).

Pronaesus affinis F. Smith, 1856:240, ♂, ♀. Syntypes: South Africa: Natal: Port Natal (BMNH). Synonymized with *Sphex xanthocerus* by Kohl, 1890:183.

Chlorion fulvipes Gerstaecker in Peters, 1858:510, ♂. Holotype or syntypes: ♂, Mozambique: no specific locality (ZMHU). Synonymized with *Sphex xanthocerus* by Kohl, 1890:183. – Taschenberg, 1880:776 (description of ♀).

Chlorion subcyaneum Gerstaecker in Peters, 1858:511, ♀. Holotype or syntypes: ♀, Mozambique: no specific locality (ZMHU). Synonymized with *Sphex xanthocerus* by Kohl, 1890:183. – **As *Sphex xanthoceros* var. *subcyaneus***: Strand, 1916b:102 (Tanzania: Bagamoyo, as *subcyanbeum*); Berland, 1952b:275 (boundary of Ivory Coast, Guinea, and Liberia: Mt. Nimba), 1956:1164 (in revision of African Sphecini). – **As *Chlorion xanthocerus* var. *subcyaneum***: Arnold, 1928c:348 (revision). – **As *Chlorion xanthoceros subcyaneum***: Arnold, 1943:78 (Zaire). – **As *Sphex subcyaneus***: Schouteden, 1930:95 (Zaire).

Chlorion fulvipes Gerstaecker, 1862:482, ♂. Objective synonym of *Chlorion fulvipes* Gerstaecker, 1858.

Chlorion subcyaneum Gerstaecker, 1862:482. Objective synonym of *Chlorion subcyaneum* Gerstaecker, 1858.

Chlorion zonatum de Saussure, 1867:36, ♂. Holotype or syntypes: ♂, Guinea: no specific locality (NHMW). Synonymized with *Sphex xanthocerus* by Kohl, 1890:183 (or an earlier author?). – **As *Chlorion xanthocerus* var. *zonatum***: Arnold, 1928c:349 (revision). – **As *Sphex zonatus***: Schouteden, 1930:95 (Zaire). – **As *Sphex xanthocerus* var. *zonatus***: Berland, 1956:1165 (in revision of African Sphecini).

Sphex mandibularis var. *unicolor* de Saussure, 1867:37, sex not indicated. Holotype or syntypes: Mozambique (NHMW). Synonymized with *Sphex xanthocerus* by Kohl, 1890:183. – **As *Chlorion xanthocerus* var. *unicolor***: Arnold, 1928c:348 (revision). – **As *Chlorion xanthocerus unicolor***: Arnold, 1943:78 (Zaire). – **As *Sphex unicolor***: Schouteden, 1930:95 (Zaire). – **As *Chlorion xanthoceros unicolor***: Leclercq, 1955h:42 (locality records).

? *Sphex cyanescens* Radoszkowski, 1881:209, ♂. Holotype or syntypes: ♂, Angola: Humbe (Kraków). – As questionable synonym of *Chlorion maxillosum ciliatum*: R. Bohart and Menke, 1976:90 (listed).

Chlorion columbianum Gribodo, 1883a:262, ♀. Lectotype: ♀, Colombia: Caracas (Genova), designated by Menke in Bohart and Menke, 1976:90. Synonymized with *Chlorion maxillosum ciliatum* by Menke in Bohart and Menke, 1976:90.

Sphex massaicus Cameron, 1908a:262, ♀, ♂. Syntypes: Kenya: Mount Meru: Ngare na nyuki (NRS). Synonymized with *Chlorion xanthocerum* by R. Turner, 1913:746 and with *Sphex xanthocerum* by Berland, 1926b:164.

Sphex levilabris Cameron, 1910:137, ♀. Holotype or syntypes: ♀, South Africa: Transvaal: Kranspoort (TMP). Synonymized with *Chlorion xanthocerum* var. *maxillaris* by Arnold, 1928c:348.

Sphex xanthoceros var. *kigonseranus* Strand, 1916:102, ♀, ♂ (as *kigonserana*, incorrect original termination). Syntypes: German East Africa: Kigonsera (DEI). Synonymized with *Chlorion* – Berland, 1956:1163 (in revision of African Sphecini, as *kingiserana*); Leclercq, 1953b:211 (first record from Madagascar, as *kingoseranum*). – **As *Chlorion xanthocerum kigonserana***: Arnold, 1928c:348. – **As *Chlorion xanthoceros kigonseranum***: Leclercq, 1955h:42 (locality records), 1961b:49 (Rwanda).

CHALYBION

Chalybion Dahlbom, 1843:21. Type species: "*Chalybion caeruleum*" [= *Sphex caeruleus* of Linnaeus, 1767:941 = *Sphex caeruleus* Linnaeus, 1763 (nec *Sphex caeruleus* Linnaeus, 1758) = *Sphex cyaneus* Fabricius, 1775 (nec *Sphex cyaneus* Linnaeus, 1758) = *Pelopeus* (sic) *californicus* de Saussure, 1867], designated by Patton, 1880a:378.

Chalybium Agassiz, 1846:77. Emendation of *Chalybion* Dahlbom, 1843.

Chalybium W. Schulz, 1906:192. Emendation of *Chalybion* Dahlbom, 1843, homonym of *Chalybium* Agassiz, 1846.

Hemichalybion Kohl, 1918:79. Type species: *Pelopoëus eckloni* Dahlbom, 1845, designated by Pate, 1937c:30.

bonneti Leclercq

Chalybion bonneti Leclercq, 1966:55, ♀, ♂. Holotype: ♀, Madagascar: Tamatave (FSAG). – R. Bohart and Menke, 1976:102 (listed); Hensen, 1988:25 (revision).

madecassum (Gribodo)

Pelopoëus madecassus Gribodo, 1883a:263, ♀, ♂. Lectotype: ♀, Madagascar: no specific locality (Genova), designated by Hensen, 1988:27. – **As *Sceliphron madecassum***: Kohl, 1906a:193, 196 (in key), 1909:370 (Comoro Islands); Turner, 1911b:368 (Seychelles Islands); Kohl, 1918:65 (revision); Arnold, 1945:86 (Madagascar). – **As *Chalybion madecassum***: Leclercq, 1953b:211 (Madagascar); Vesey-Fitzgerald, 1956b:362 (Seychelles); Leclercq, 1961d:106 (Madagascar), 1966:56 (comparison with *Chalybion bonneti*; Hensen, 1988:27 (revision); Madl, Matyot, and Schödl, 1996:831 (Seychelles Islands); Madl, 1997:819 (Madagascar: Nosy Boraha Island), 821 (in checklist of Nosy Boraha Sphecidae).

As *Sceliphron violaceum*: de Saussure, 1892:449 (Madagascar), corrected to *Sceliphron madecassum* by Kohl, 1906a:193; Friederichs, 1918:33, 42 (life history) and von Schulthess in Friederichs, 1918:48 (Madagascar: Antananarivo, Diego Suarez), corrected to *Chalybion madecassum* by Hensen, 1988:27; Vesey-Fitzgerald, 1950:75 (new to Seychelles Islands), corrected to *Chalybion madecassum* by Hensen, 1988:27.

Sceliphron purpurascens Pérez, 1895:211, ♀, ♂. Lectotype: ♀, Madagascar: no specific locality (MNHN), designated by Hensen, 1988:27. Synonymized with *Sceliphron madecassum* by Kohl, 1906a:193.

As *Sceliphron bengalense*: Cameron, 1907:76 (Seychelles Islands), corrected to *Sceliphron madecassum* by R. Turner, 1911b:369.

CROSSOCERUS

(*Pericrabro* is excluded)

Crossocerus Lepelletier de Saint Fargeau and Brullé, 1835:763. Type species: *Crabro scutatus* Fabricius, 1787 [= *Sphex palmipes* Linnaeus, 1767], designated by Westwood, 1839:80.

Blepharipus Lepelletier de Saint Fargeau and Brullé, 1835:728. Type species: *Blepharipus nigratus* Lepelletier de Saint Fargeau and Brullé, 1835, designated by Ashmead, 1899d:215. Westwood's (1939:80) designataion of *Crabro*

dimidiatus Fabricius, 1781, as type species of *Blepharipus* is invalid since this species was only questionably included in the taxon by Lepeletier de Saint Fargeau and Brullé (1835:731).

Cuphopterus A. Morawitz, 1866:252. Type species: *Crabro subulatus* Dahlbom, 1845, by monotypy, = *Blepharipus* of authors accepting Westwood's type species designation.

Coelocrabro Thomson, 1874:262. Type species: *Crabro pubescens* Shuckard, 1837 [= *Blepharipus nigrinus* Lepeletier de Saint Fargeau and Brullé, 1835], designated by Richards, 1935a:166.

Hoplocrabro Thomson, 1874:262. Type species: *Crabro quadrimaculatus* Fabricius, , 1793, by monotypy.

Microcrabro de Saussure, 1892:574. Type species: *Crabro micromegas* de Saussure, 1892, by monotypy.

Dolichocrabro Ashmead, 1899d:216. Type species: *Dolichocrabro wickhami* Ashmead, 1899, by original designation.

Epicrossocerus Ashmead, 1899d:215. Type species: *Crabro insolens* W. Fox, 1895, by original designation.

Stenocrabro Ashmead, 1899d:216. Type species: *Crabro planipes* W. Fox, 1895, by original designation.

Synorhopalum Ashmead, 1899d:218. Type species: *Crabro decorus* W. Fox, 1895, by original designation.

Ischnolynthus Holmberg, 1903:472. Type species: *Ischnolynthus foveolatus* Holmberg, 1903 [= *Crabro elongatulus* Vander Linden, 1892], by monotypy.

Ablepharipus Perkins, 1913b:390. Type species: *Ablepharipus podagricus* (Vander Linden, 1829) [= *Crabro podagricus* Vander Linden, 1829, by monotypy.

Acanthocrabro Perkins, 1913b:391. Type species: *Acanthocrabro vagabundus* (Panzer, 1798) [= *Crabro vagabundus* Panzer , 1798], by monotypy, = *Blepharipus* of Leclercq, 1954.

Apocrabro Pate, 1944a:282. Type species: *Crossocerus aeta* Pate, 1944, by original designation.

Nothocrabro Pate, 1944a:314. Type species: *Crabro nitidiventris* W. Fox, 1895, by original designation.

Stictoptila Pate, 1944a:315. Type species: *Crabro confertus* W. Fox, 1895 [= *Crabro maculipennis* F. Smith, 1856], by original designation.

Yuchiba Pate, 1944a:272. Type species: *Crossocerus xanthochilos* Pate, 1944, by original designation.

Ainocrabro Tsuneki, 1954b:74. Type species: *Crossocerus aino* (Tsuneki, 1947) [= *Crabro aino* Tsuneki, 19947], by original designation.

Oxycrabro Leclercq, 1961h:74. Type species: *Crabro acanthophorus* Kohl, 1892, by original designation.

Paroxycrabro Leclercq, 1963:2. Type species: *Crossocerus sotirus* Leclercq, 1963, by original designation and monotypy.

Alicrabro Tsuneki, 1968g:7. Type species: *Crossocerus rufiventris* Tsuneki, 1968, by original designation and monotypy.

Apoides Tsuneki, 1968g: 5. Type species: *Crossocerus alticola* Tsuneki, 1968, by original designation and monotypy.

Neoblepharipus Leclercq, 1968c:98. Type species: *Crossocerus potosus* Leclercq, 1968, by original designation.

Towada Tsuneki, 1970f:1. Type species: *Crossocerus leclercqi* Tsuneki, 1959 [= *Crabro flavitarsus* Tsuneki, 1947], by original designation and monotypy.

Bnunius Tsuneki, 1971a:15. Type species: *Crossocerus domicola* Tsuneki, 1971, by original designation.

Fentis Tsuneki, 1971a:13. Type species: *Crossocerus quinquedentatus* Tsuneki, 1971, by original designation and monotypy.

Ornicrabro Leclercq, 1973c:291. Type species: *Crossocerus flavissimus* Leclercq, 1973, by original designation and monotypy.

Corenocrabro Tsuneki, 1974a:374. Type species: *Corenocrabro ectemiformis* Tsuneki, 1974, by original designation and monotypy. Synonymized with *Crossocerus* by Marshakov, 1979a:96 and by Nemkov in Nemkov, Kazenas, Budrys, and Antropov, 1995:428 (as new synonym).

Thao Tsuneki, 1982e:33, as subgenus of *Crossocerus*. Type species: *Crossocerus nitidicorpus* Tsuneki, 1968, by original designation and monotypy.

Orthocrabro Tsuneki, 1990a:87, as subgenus of *Crossocerus*. Type species: *Crossocerus hirashimai* Tsuneki, 1966, by original designation and monotypy.

Yambal Tsuneki, 1990a:90, as subgenus of *Crossocerus*. Type species: *Crossocerus minor* Tsuneki, 1990, by original designation and monotypy.

Corenocrabro Tsuneki, 1991:202, junior homonym of *Corenocrabro* Tsuneki, 1974. Not available: nomen nudum and type not designated (Article 13b).

***brunniventris bekiliensis* (Arnold)**

Crabro brunniventris race *bekiliensis* Arnold, 1945:180, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – Leclercq, 1954c:221 (listed), 304 (nest and prey records); 1958a:14, footnote (diagnostic characters), 17 (Madagascar: Bekily, Ivondro). – As *Crossocerus brunniventris bekiliensis*: R. Bohart and Menke, 1976:400 (new status, listed).

***hirtitibia* (Arnold)**

Crabro hirtitibia Arnold, 1945:179, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – As *Crossocerus hirtitibia*: Leclercq, 1954c:236 (new combination, listed), 1958a:13 (in key), 25 (Madagascar: Bekily); R. Bohart and Menke, 1976:401 (listed); Rodgers and Homewood, 1982:233 (Tanzania: Usambara Mountains).

***micromegas* (de Saussure)**

Crabro micromegas de Saussure, 1892:575, ♀. Holotype: ♀, Madagascar: Anatanarivo (MHNG). – Dalla Torre, 1897:610 (in catalog of world Sphecidae). – As *Microcrabro micromegas*: Arnold, 1945:185 (Madagascar). – As *Crossocerus micromegas*: Leclercq, 1954c:221 (new combination, listed); R. Bohart and Menke, 1976:402 (listed).

DASYPROCTUS

Dasyproctus Lepeletier de Saint Fargeau and Brullé, 1835:801. Type species: *Dasyproctus bipunctatus* Lepeletier de Saint Fargeau and Brullé, 1835, by monotypy.

Megapodium Dahlbom, 1844:295. Type species: *Megapodium westermanni* Dahlbom, 1844, designated by Pate, 1937c:37.

Megalopodium W. Schulz, 1906:202. Emendation of *Megapodium* Dahlbom, 1844.

Bishamon Tsuneki, 1983h:17, as subgenus of *Dasyproctus*. Type species: *Dasyproctus guadalensis* Tsuneki, 1983, by original designation and monotypy.

***crudelis* (de Saussure)**

Crabro crudelis de Saussure, 1892:579, ♀, ♂. Syntypes: Madagascar: Antananarivo area (MHNG). – Arnold, 1945:170 (Madagascar; revision). – As *Dasyproctus crudelis*: Leclercq, 1954c:261 (new combination, listed), 1958a:50 (in key), 75 (listed); R. Bohart and Menke, 1976:420 (listed); Leclercq, 1990a:233, 234, and 242 (in key), 250 (bibliographic references, shape of frontal carina), 1991d:19 (summary of collecting localities).

***ferox* (de Saussure)**

Crabro ferox de Saussure, 1892:580, ♀. Syntypes: ♀, Madagascar: Antananarivo area, Anosibé in Bezanozano Province (MHNG). – Arnold, 1945:171 (Madagascar; revision). – As *Dasyproctus ferox*: Leclercq, 1954c:258 (new combination, listed), 1958a:39 (in key), 63 (additional description), 1961b:87 (additional Madagascan records), 1961d:117 (Madagascar); R. Bohart and Menke, 1976:420 (listed); Leclercq, 1990a:225 and 237 (in key), 250 (bibliographic references), 1991d:19 (summary of collecting localities); Madl, 1997:821 (Madagascar: Nosy Boraha Island), 822 (in checklist of Nosy Boraha Sphecidae).

Crabro immanis de Saussure, 1892:581, ♂. Syntypes: ♂, Madagascar: Anosibé in Bezanozano Province (MHNG). Synonymized with *Crabro ferox* by Arnold, 1945:171. – Dalla Torre, 1897:604 (in catalog of world Sphecidae).

***lambertoni* Leclercq**

Dasyproctus lambertoni Leclercq, 1958a:63, ♀. Holotype: ♀, Madagascar: Fanovana District: Madag (USNM). – Leclercq, 1958a:38 (in key), 63, 1961d:117 (Madagascar); R. Bohart and Menke, 1976:421 (listed); Leclercq, 1990a:224 and 236 (in key, ♂), 252 (bibliographic reference; Madagascar: Angavoleky), 1991d:24 (summary of collecting localities).

saevus (de Saussure)

Crabro saevus de Saussure, 1892:579, ♂. Holotype or syntypes: ♂, Madagascar: Antananarivo area (MHNG). – Dalla Torre, 1897:624 (in catalog of world Sphecidae); Arnold, 1945:172 (Madagascar; redescription). – **As *Dasyproctus saevus***: Leclercq, 1954c:261 (new combination, listed), 1958a:54 (in key), 86 (diagnostic characters); R. Bohart and Menke, 1976:421 (listed); Leclercq, 1990a:233, 234, 238, and 239 (in key), 252 (bibliographic references), 1991d:28 (relation to *medicus*, summary of collecting localities).

Thyreopus stevensoni Arnold, 1926:369, ♀, ♂ (as *Stevensoni*, incorrect original capitalization), primary homonym of *Thyreopus stevensoni* Arnold, 1926:344. Syntypes: Zimbabwe: Bulawayo (SAM). Synonymized with *Dasyproctus saevus* by Leclercq, 1990a:253. – **As *Crabro stevensoni***: Arnold, 1940:135 (new combination, preoccupied). – **As *Dasyproctus stevensoni***: Schouteden, 1930:94 (new combination, Zaire); Leclercq, 1954c:260 (listed), 1958a:51 (in key), 88 (diagnostic characters), 1961b:82 (Zaire: Garamba National Park); R. Bohart and Menke, 1976:421 (listed).

Crabro stevensonianus Arnold, 1940:135 (as *Stevensonianus*, incorrect original capitalization). Replacement name for *Thyreopus stevensoni* Arnold, 1926:369. – **As *Dasyproctus stevensonianus***: R. Bohart and Menke, 1976:421 (as synonym of *Dasyproctus stevensoni*); Dollfuss, 1990a:122 (Central African Republic, as *stephensonianus*).

Crabro stevensonianus occidentalis Arnold, 1951:164, ♂. Holotype: ♂, Ghana: Aburi (BMNH). Synonymized with *Dasyproctus stevensoni* by Leclercq, 1954c:259.

saussurei (Kohl)

Crabro saussurei Kohl, 1894:282, ♂ (as *Saussurei*, incorrect original capitalization). Holotype or syntypes: ♂, Madagascar: no specific locality (NHMW). – Dalla Torre, 1897:624 (in catalog of world Sphecidae); W. Schulz, 1911:185 (as new synonym of *Crabro crudelis*); Arnold, 1945:174 (synonymy with *Crabro crudelis* invalid). – **As *Dasyproctus saussurei***: Leclercq, 1954c:261 (new combination, listed), 1958a:50 (in key), 75 (listed; female head longer than in other *Dasyproctus*), 1961b:87 (Madagascar: Mailaka); R. Bohart and Menke, 1976:421 (listed); Dollfuss, 1989:9 (holotype in NHMW); Leclercq, 1990a:234 and 242 (in key), 254 (bibliographic references), 1991d:31 (relations to *crudelis*, summary of collecting localities).

Crabro infrarugosus Arnold, 1945:173, ♀, ♂. Syntypes: Madagascar: Rogez (MNHN). Synonymized with *Dasyproctus saussurei* by Leclercq, 1958a:75. – **As *Dasyproctus infrarugosus***: Leclercq, 1954c:261 (new combination, listed).

DAYCATINCA

Daycatinca Argaman, 1985:7. Type species: *Heterogyna fantsilotra* Day, 1984, by original designation.

Daya Antropov and Gorbatsovskiy, 1992:58 (as subgenus of *Heterogyna*). Type species: *Heterogyna madecassa* Day, 1984, by original designation.

Key: Argaman, 1985:10

fantsilotra (Day)

Heterogyna fantsilotra Day, 1984:306, ♂. Holotype: ♂, Madagascar: Toliara: Bereboka (BMNH). – **As *Daycatinca fantsilotra***: Argaman, 1985:8 (new combination), 10 (in key).

madecassa (Day)

Heterogyna madecassa Day, 1984:305, ♂. Holotype: ♂, Madagascar: Toliara: Bereboka (BMNH). – **As *Daycatinca madecassa***: Argaman, 1985:8 (new combination), 10, 11 (in key)..

ravenala (Day)

Heterogyna ravenala Day, 1984:306, ♂. Holotype: ♂, Madagascar: Tamatave: Périnet, now Andasibé (BMNH). – **As *Daycatinca ravenala***: Argaman, 1985:8 (new combination), 10, 11 (in key).

DOLICHURUS

Dolichurus Latreille, 1809:387. Type species: *Pompilus corniculatus* Spinola, 1808, designated by Latreille, 1810:438.

Thyreosphex Ashmead, 1904:282. Type species: *Thyreosphex stantoni* Ashmead, 1904, by monotypy.

***secundus* de Saussure**

Dolichurus secundus de Saussure, 1892:450, ♀. Syntypes: ♀, Madagascar: Antananarivo (MHNG). – Kohl, 1893d:510 (revision); Dalla Torre, 1897:371 (listed); Arnold, 1945:83 (Madagascar; redescription); Leclercq, 1961d:101 (Madagascar); R. Bohart and Menke, 1976:69 (listed); Leclercq, 1990b:114 (Madagascar), Madl, 1997:819 (Madagascar: Nosy Boraha Island) 821 (in checklist of Nosy Boraha Sphecidae).

Dolichurus tertius de Saussure, 1892:452, ♀. Holotype or syntypes: ♀, Madagascar: Anosibé in Bezanozano Province (MHNG). Synonymized with *Dolichurus secundus* by Arnold, 1945:83. – Kohl, 1893d:512 (revision); Dalla Torre, 1897:371 (listed); Friese, 1900:267 (Madagascar: Nosy-Be).

ECTEMNIUS

Ectemnius Dahlbom, 1845:389. Type species: "*E. guttatus*, Dahlb." [= *Crabro guttatus* of Dahlbom, 1845 = *Crabro guttatus* Vander Linden, 1829], designated by Ashmead, 1899d:172.

Clytochrysus A. Morawitz, 1864:453. Type species: *Crabro chrysostomus* Lepeletier de Saint Fargeau and Brullé, 1835 [= *Crabro lapidarius* Panzer, 1804], designated by Richards, 1935a:168.

Thyreocerus A. Costa, 1871:65. Type species: *Crabro crassicornis* Spinola, 1808, by monotypy.

Mesocrabro C. Verhoeff, 1892:70. Type species: *Crabro guttatus* Vander Linden, 1829, designated by Pate, 1937c:38.

Hypocrabro Ashmead, 1899d:168. Type species: *Crabro decemmaculatus* Say, 1823, by original designation.

Nesocrabro R. Perkins, 1899:25. Type species: *Crabro rubrocaudatus* Blackburn, 1887, designated by Pate, 1937c:42.

Pseudocrabro Ashmead, 1899d:169. Type species: *Crabro chrysarginus* of Lepeletier de Saint Fargeau, 1845 [= *Crabro chrysargyrus* Lepeletier de Saint Fargeau and Brullé, 1835 = *Crabro decemmaculatus* Say, 1823], by original designation.

Xestocrabro Ashmead, 1899d:169. Type species: *Crabro sexmaculatus* Say, 1823 [= *Crabro continuus* Fabricius, 1804], by original designation.

Xylocrabro Ashmead, 1899d:169. Type species: *Crabro stirpicola* Packard, 1866, by original designation.

Metacrabro Ashmead, 1899d:169. Type species: *Crabro kollari* Dahlbom, 1845 [= *Crabro lituratus* Panzer, 1804, by original designation.

Protothyreopus Ashmead, 1899d:170. Type species: *Crabro rufifemur* Packard, 1866, by original designation.

Oreocrabro R. Perkins, 1902:146. Type species: *Crabro abnormis* Blackburn, 1886, by original designation.

Hylocrabro R. Perkins, 1902:147. Type species: *Crabro tumidoventris* R. Perkins, 1899, by original designation.

Melanocrabro R. Perkins, 1902:147. Type species: *Crabro curtipes* R. Perkins, 1899, by original designation.

Xenocrabro R. Perkins, 1902:148. Type species: *Crabro unicolor* F. Smith, 1856, by original designation.

Lophocrabro Rohwer, 1916b:667. Type species: *Crabro singularis* F. Smith, 1856 [= *Vespa maculosa* Gmelin, 1790], by original designation.

Merospis Pate, 1941c:121. Type species: *Ectemnius cyanauges* Pate, 1941, by original designation and monotypy.

Cameronitus Leclercq, 1950b:14. Type species: *Ectemnius menyllus* (Cameron, 1905) [= *Crabro menyllus* Cameron, 1905, by original designation and monotypy.

Protectemnius Leclercq, 1951j:105. Type species: *Crabro tabanicida* Fischer, 1929, by original designation and monotypy.

Yanonus Tsuneki, 1956e:129. Type species: *Crabro martjanowi* F. Morawitz, 1892, by original designation and monotypy.

Policrabro Leclercq, 1958c:106. Type species: *Crossocerus krusemani* Leclercq, 1950, by original designation.

Iwataia Tsuneki, 1959e:8. Type species: *Crabro furuichii* Iwata, 1934, by original designation and monotypy.

Leocrabro Leclercq, 1968e:300. Type species: *Ectemnius leonesus* Leclercq, 1968, by original designation and monotypy. Synonymized with *Protectemnius* Leclercq, 1951:105 by Leclercq, 1991b:26.

Ceratocrabro Tsuneki, 1970f:1. Type species: *Ectemnius shimoyamai* Tsuneki, 1958, by original designation and monotypy.

Papua crabro Tsuneki, 1983h:22, as subgenus of *Ectemnius*. Type species: *Ectemnius papuanus* Tsuneki, 1983, by original designation and monotypy.

Metactemnius Tsuneki, 1984b:34, as subgenus of *Ectemnius*. Type species: *Ectemnius apo* Tsuneki, 1984, by original designation and monotypy.

Spadicocrabro Tsuneki, 1990b:100. Type species: *Crabro nitobei* Matsumura, 1912, by original designation and monotypy. Established as genus, treated as a subgenus of *Ectemnius* by Leclercq, 1999:9.

***praeclarus* (Arnold)**

Crabro praeclarus Arnold, 1945:181, ♀. Syntypes: Madagascar: Ivondro (MNHN). – **As *Ectemnius praeclarus***: Leclercq, 1954c:269 (new combination, listed); R. Bohart and Menke, 1976:427 (listed); Leclercq, 1999:12 (in key to subgenera and species groups of *Ectemnius*).

Dasyproctus sakalavus Leclercq, 1967b:68, ♀. Holotype: ♀, Madagascar: Aninoravo (MNHN). Synonymized with *Ectemnius praeclarus* by Leclercq, 1989c:51. – R. Bohart and Menke, 1976:421 (listed).

***seyrigi* (Arnold)**

Crabro seyrigi Arnold, 1945:183, ♀, ♂ (as *Seyrigi*, incorrect original capitalization). Syntypes: Madagascar: Ivondro (MNHN). – Arnold, 1958:137 (belongs to subgenus *Metacrabro* in Leclercq's system). – **As *Ectemnius seyrigi***: Leclercq, 1954c:269 (new combination, listed), 1961d:118 (belongs to subgenus *Iwataia*; Madagascar); R. Bohart and Menke, 1976:428 (listed); Leclercq, 1989c:52 (variation).

***slateri nigrescens* (Arnold)**

Crabro slateri nigrescens Arnold, 1945:183, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – **As *Ectemnius slateri nigrescens***: R. Bohart and Menke, 1976:428 (listed).

ENTOMOGNATHUS

Entomognathus Dahlbom, 1844:295. Type species: *Crabro revis* Vander Linden, 1829, by monotypy.

Koxinga Pate, 1944b:341. Type species: *Entomognathus siraiyae* Pate, 1944, by original designation and monotypy.

Mashona Pate, 1944b:341. Type species: *Thyreopus apiformis* Arnold, 1926, by original designation and monotypy.

Toncahua Pate, 1944b:341. Type species: *Entomognathus texanus* Cresson, 1887, by original designation and monotypy.

Florkinus Leclercq, 1956b:2. Type species: *Florkinus evolutionis* Leclercq, 1956, by original designation and monotypy.

Bihargnathus Leclercq, 1977a:452, as subgenus of *Entomognathus*. Type species: *Encopognathus itinerus* Leclercq, 1977, by original designation.

***arnoldi* Bohart and Menke**

Crabro tridens Arnold, 1945:165, ♀. Syntypes: Madagascar: Bekily (MNHN). Primary homonym of *Crabro tridens* Fabricius, 1798, a junior synonym of *Oxybelus uniglumis* (Linnaeus, 1758). – **As *Entomognathus tridens***: Leclercq, 1954c:202 (new combination, listed), 1961b:72 (Madagascar; description of ♂), 1997b:115 (in key), 120 (bibliographic references, faunal records, tentatively assigned to subgenus *Mashona*).

Entomognathus arnoldi Bohart and Menke, 1976:382. Replacement name for *Crabro tridens* Arnold.

***diversicornis* (Arnold)**

Crabro diversicornis Arnold, 1945:168, ♂, ♀. Syntypes: Madagascar: Bekily (MNHN). – **As *Entomognathus diversicornis***: Leclercq, 1954c:202 (new combination, listed); R. Bohart and Menke, 1976:382 (listed); Leclercq, 1997b:118 (in key), 121 (bibliographic references, correction to original description).

***faunus* (Arnold)**

Crabro faunus Arnold, 1945:166, ♀. Syntypes: Madagascar: Bekily (MNHN). – **As *Entomognathus faunus***: Leclercq, 1954c:202 (new combination, listed); R. Bohart and Menke, 1976:382 (listed), 1997b:115 (in key).

***midas* (Arnold)**

Crabro midas Arnold, 1945:161, ♀. Syntypes: Madagascar: Behara (MNHN). – **As *Entomognathus midas***: Leclercq, 1954c:203 (new combination, new combination, listed); R. Bohart and Menke, 1976:382 (listed; as *midus*); Leclercq, 1997b:116 (in key); Leclercq, 1997b:116 (in key), 124 (bibliographic references).

***mimicus* (Arnold)**

Crabro mimicus Arnold, 1945:163, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – **As *Entomognathus mimicus***: Leclercq, 1954c:203 (new combination, listed), 303 (nest and prey records); R. Bohart and Menke, 1976:382 (listed); Leclercq, 1997b:116 (in key), 124 (bibliographic references).

***ruficaudatus* (Arnold)**

Crabro ruficaudatus Arnold, 1945:164, ♀. Syntypes: Madagascar: Ivondro, Rogez (MNHN). – **As *Entomognathus ruficaudatus***: Leclercq, 1954c:202 (new combination, listed), 1961b:71 (Madagascar); R. Bohart and Menke, 1976:382 (listed); Leclercq, 1997b:115, 119 (in key), 128 (bibliographic references, tentatively assigned to subgenus *Mashona*).

GASTROSERICUS

Gastrosericus Spinola, 1839:480. Type species: *Gastrosericus waltlii* Spinola, 1839, by monotypy. – **As *Gastrosericus*** (unjustified emendation or misspelling): Dahlbom, 1845:467; Brauns, 1906:49, 51, 52.

Eparmatostethus Kohl, 1907:167. Type species: *Eparmatostethus madecassus* Kohl, 1907, by monotypy. Synonymized with *Gastrosericus* by Arnold, 1927:116. – **As *Eparmatostethus*** (misspelling): Pate, 1937:26, Bohart and Menke, 1976:43.

Parallelopsis Maidl, 1914b:147. Type species: *Parallelopsis africana* Maidl, 1914 [= *Gastrosericus neavei* Turner, 1913], by original designation and monotypy. Synonymized with *Gastrosericus* by Arnold, 1922:114. – **As *Parallelopsis*** (misspelling): Turner, 1916:258; Pate, 1937:47.

Dinetomorpha Gussakovskij, 1931:451. Not available: type species not designated (Article 13b).

Gastrargyron Gussakovskij, 1931:451. Not available: type species not designated (Article 13b).

Dinetomorpha Pate, 1937:22, Article 13a (ii) (as *Dinetomorpha* Gussakovskij, 1931, a subgenus of *Gastrosericus*). Type species: *Gastrosericus flavicornis* Gussakovskij, 1931 [= *Gastrosericus electus* Nurse, 1903], designated by Pate, 1937:22. Validation of Gussakovskij's (1931:451) name. Synonymized with *Gastrosericus* by Bohart and Menke, 1976:43.

Gastrargyron Pate, 1937:28, Article 13a (ii) (as *Gastrargyron* Gussakovskij, 1931, a subgenus of *Gastrosericus*). Type species: *Gastrosericus marginalis* Gussakovskij, 1931, designated by Pate, 1937:22. Validation of Gussakovskij's (1931:451) name. Synonymized with *Gastrosericus* by Bohart and Menke, 1976:43.

***madecassus* (Kohl)**

Eparmatostethus madecassus Kohl, 1907:169, ♀. Holotype: ♀, Madagascar: Taolanaro (ZIN), examined. – Pate, 1937:26 (misspelled as *Eparmatostethus*). – **In *Gastrosericus***: Arnold, 1927:116 (*Eparmatostethus* synonymized with *Gastrosericus*), 1945:92 (♂); Leclercq, 1960:96 (Madagascar: Behara); R. Bohart and Menke, 1976:256 (listed); Leclercq, 1990:115 (Madagascar: Bekily); Pulawski, 1995b:85 (revision).

***zoyphion* Pulawski**

Gastrosericus zoyphion Pulawski, 1995b:169, ♀, ♂. Holotype: ♀, Madagascar: 5 km N Toliara (CAS).

HARPACTUS

Arpactus Jurine, 1807:192, junior homonym of *Arpactus* Panzer, 1805, and of *Arpactus* Panzer, 1806. Type species: *Arpactus formosus* Jurine, 1807, designated by Shuckard, 1837:220.

Harpactus Shuckard, 1837:221. Emendation of *Arpactus* Jurine, 107. As noted by Pulawski (1985:59), Shuckard emended *Arpactus* on linguistic grounds, thus creating an available new name, with its own date and author (Articles 19 and 33.2). Since *Harpactus* is an emendation, it has the same type-species as *Arpactus* Jurine (Article 67.8).

Harpactes Dahlbom, 1843:147, junior homonym of *Harpactes* Swainson, 1837 (Aves), and of *Harpactes* Templeton, 1834 (Arachnida). Emendation of *Harpactus* Shuckard.

Dienoplus W. Fox, 1894a:548. Type species: *Dienoplus pictifrons* W. Fox, 1894, by monotypy.

histrío (de Saussure)

Harpactes histrío de Saussure, 1892:530, ♀. Syntypes: ♀, Madagascar: Bezanozano: Anosibé (MHNG). – **As *Gorytes histrío***: Handlirsch, 1895:907 (new combination, redescription); Dalla Torre, 1897:542 (listed); Arnold, 1945:57 (Madagascar; redescription); Leclercq, 1960a:100 (Madagascar). – **As *Dienoplus histrío***: R. Bohart *in* Bohart and Menke, 1976:496 (new combination, listed); Leclercq, 1990b:119 (Madagascar; variation).

HOLOTACHYSPHEX

Holotachyspex de Beaumont, 1940:179. Type species: *Tachyspex holognathus* Morice, 1897, by monotypy.

Phytospex Arnold, 1951:153. Type species: *Tachyspex turneri* Arnold, 1923, by original designation.

Haplognatha Gussakovskij, 1952:248. Type species: *Haplognatha prosopigastroides* Gussakovskij, 1952, by original designation and monotypy.

sacalava (Arnold)

Tachyspex turneri sacalava Arnold, 1945:106, ♀, ♂. Syntypes: Madagascar: no specific locality (MNHN). – **As *Holotachyspex sacalava***: Menke *in* Bohart and Menke, 1976:282 (new combination, new status, listed); Pulawski, 1992a:234 (revision).

HOPLISOIDES

Hoplisoides Gribodo, 1884d:276. Type species: *Hoplisoides intricans* Gribodo, 1884, by monotypy.

Icuma Cameron, 1905b:21. Type species: *Icuma sericea* Cameron, 1905, by monotypy [= *Gorytes vespoides* F. Smith, 1873]. Synonymized with *Hoplisoides* by R. Bohart *in* Bohart and Menke, 1976:53

bipustulatus (Arnold)

Gorytes bipustulatus Arnold, 1945:55, ♀, ♂. Syntypes: Madagascar: Behara, Bekily (MNHN). – Leclercq, 1960a:100 (Madagascar). – **As *Hoplisoides bipustulatus***: R. Bohart *in* Bohart and Menke, 1976:520 (new combination, listed); Leclercq, 1990b:119 (Madagascar; prey: Tettigometridae).

HOVANYSSON

Hovanysson Arnold, 1945:52. Type species: *Brachystegus camelus* Arnold, by original designation.

albibarbis (Arnold)

Nysson albibarbis Arnold, 1945:51, ♀, ♂. Syntypes: Madagascar: Antananarivo, Bekily (MNHN). – **As *Hovanysson albibarbis***: R. Bohart *in* Bohart and Menke, 1976:472 (new combination, listed).

camelus (Arnold)

Brachystegus camelus Arnold, 1945:53, ♀, ♂. Syntypes: Madagascar: Behara, Bekily, Fort Dauphin, Ivondro (MNHN). – Leclercq, 1961d:102 (Madagascar). – **As *Hovanysson camelus***: R. Bohart *in* Bohart and Menke, 1976:472 (new combination, listed); Leclercq, 1990b:119 (Madagascar); Hancock, Chahwanda, and Mhlanga, 1995:37 (syntype in Bulawayo Museum).

ISODONTIA

Isodontia Patton, 1880a:380. Type species: *Isodontia philadelphica* (Lepeletier, 1845) [= *Sphex philadelphicus* Lepeletier, 1845], by original designation.

Leontospex Arnold, 1945:90. Type species: *Sphex leoninus* de Saussure, 1890, by original designation.

Murrayella R. Bohart and Menke, 1963:137. Type species: *Sphex elegans* F. Smith, 1856, by original designation.

leonina (de Saussure)

Sphex leoninus de Saussure, 1890: pl. 19, fig. 6, ♂. Holotype: ♂, illustrated specimen, Madagascar: no specific locality (MHNG). – Kohl, 1895:50 (revision); Berland, 1926c:282 (Madagascar: locality records); Leclercq, 1953b:211 (Madagascar). – **As *Isodontia leonina***: Menke in Bohart and Menke, 1976:123 (new combination, listed).

Sphex leoninus de Saussure, 1891:259, ♂. Objective synonym of *Sphex leoninus* de Saussure, 1890. – Leclercq, 1961d:108 (Madagascar). – **As *Chlorion leoninum***: Arnold, 1945:90 (Madagascar; redescription).

Sphex leoninus de Saussure, 1892:431, ♀, ♂ (as *leonina*, incorrect original termination). Objective synonym of *Sphex leoninus* de Saussure, 1890.

LARRA

Larra Fabricius, 1793:220. Type species: *Larra ichneumoniformis* Fabricius, 1793 [= *Sphex anathema* Rossi, 1790], designated by Latreille, 1810:438.

Larrana Rafinesque, 1815:124. Emendation or new name for *Larra* Fabricius, 1793.

Lara Drapiez, 1819:54. Lapsus or emendation of *Larra* Fabricius, 1793. [*Lara* LeConte, 1852, is a junior homonym] *Monomatium* Shuckard, 1840:181, no included species. Type species: *Larraxena princeps* F. Smith, 1851, designated by Pate, 1935:246 (first included species).

Lyrops Dahlbom, 1843:132, junior homonym of *Lyrops* Illiger, 1807. Type species: *Tachytes paganus* Dahlbom, 1843, by monotypy.

Larraxena F. Smith, 1851:30. Type species: *Larraxena princeps* F. Smith, 1851, by monotypy.

Larrada F. Smith, 1856:273. Type species: *Larrada anathema* (Rossi, 1790) [= *Sphex anathema* Rossi, 1790], by original designation.

Cratolarra Cameron, 1900a:34. Type species: *Cratolarra femorata* Cameron, 1900, secondary homonym of *Larra femorata* (de Saussure, 1854), by monotypy. Treated as subgenus of *Larra* by Menke in Bohart and Menke, 1976:42.

betsilea de Saussure

Larra betsilea de Saussure, 1887:17, ♀ (as *Betsilea*, incorrect original capitalization). Holotype or syntypes: ♀, Madagascar: no specific locality (MHNG or MNHN). – de Saussure, 1892:488 (Madagascar, redescription, description of ♂); Arnold, 1945:114 (Madagascar; redescription); Leclercq, 1960a:96 (Madagascar), 1961d:121 (Madagascar); R. Bohart and Menke, 1976:237 (listed); Leclercq, 1990b:115 (in key), 116 (Madagascar).

heydenii (de Saussure)

Notogonia heydenii de Saussure, 1890:pl.12, fig. 18, ♀ (as *Heydenii*, incorrect original capitalization). Holotype: ♀, illustrated specimen, Madagascar: no specific locality (MHNG). – Arnold, 1945:115 (Madagascar; redescription); Leclercq, 1960a:96 (Madagascar); R. Bohart and Menke, 1976:238 (listed); Leclercq, 1990b:115 (in key), 116 (Madagascar).

Notogonia heidenii de Saussure, 1891:261 (as *Heydenii*, incorrect original capitalization). Objective synonym of *Larra heydenii* de Saussure, 1890.

Larra heydenii de Saussure, 1892:494, ♀, ♂, Syntypes: Madagascar: Anosibé in Bezanozano Province and Imerina Province (MHNG). Objective synonym of *Larra heydenii* de Saussure, 1890.

madecassa de Saussure

Larra madecassa de Saussure, 1887:17, ♂. Holotype or syntypes: ♂, Madagascar: no specific locality (MHNG or MNHN). – de Saussure, 1892:496 (Madagascar, redescription); Arnold, 1945:116 (Madagascar; redescription); R. Bohart and Menke, 1976:238 (listed); Leclercq, 1990b:115 (in key), 116 (Madagascar).

saussurei Kohl

Larra prismatica de Saussure, 1887:17, ♀, primary homonym of *Larra prismatica* F. Smith, 1857 (now in *Bembecinus*). Holotype or syntypes: ♀, Madagascar: no specific locality (MNHN). – Arnold, 1945:114 (Madagascar; redescription); Leclercq, 1960a:97 (Madagascar), 1961d:112 (Madagascar).

Larra saussurei Kohl, 1892:219, ♀ (as *Saussurei*, incorrect original capitalization). Syntypes: Madagascar: no specific locality (NHMW). Synonymized with *Larra prismatica* de Saussure by W. Schulz, 1911:190. – R. Bohart and Menke, 1976:238 (listed); Dollfuss, 1989:10 (type material in NHMW); Leclercq, 1990b:115 (in key), 117 (Madagascar).

***variipes* de Saussure**

Larra carbonaria de Saussure, 1892:491, ♀, secondary homonym of *Larra carbonaria* (F. Smith, 1858). Holotype or syntypes: ♀, Madagascar: Bezanozano: Anosibé (MHNG).

Larra variipes de Saussure, 1892:493, ♂. Syntypes: ♂, Madagascar: Andrangoloaka and Bezanozano: Anosibé (MHNG). – W. Schulz, 1911:190 (as new synonym of *Larra prismatica* de Saussure); R. Bohart and Menke, 1976:238 (listed); Leclercq, 1990b:115 (in key), 117 (Madagascar); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 821 (in checklist of Nosy Boraha Sphecidae).

Larra carbunculus Dalla Torre, 1897. Replacement name for *Larra carbonaria* de Saussure, 1892. – Arnold, 1945:116 (Madagascar; redescription, as valid species); Leclercq, 1960a:96 (Madagascar), 1961d:112 (Madagascar).

LIRIS

Liris Fabricius, 1804:227. Type species: *Sphex auratus* Fabricius, 1787, designated by Patton, 1880b:386.

Liris Rafinesque, 1815:124. Emendation or replacement name for *Liris* Fabricius, 1804.

Notogonia A. Costa, 1867b:82, junior homonym of *Notogonia* Perty, 1850 (Crustacea). Type species: *Tachytes niger* of Vander Linden, 1829 [= *Larra nigra* of Latreille, 1805 = *Pompilus niger* of Panzer, 1799 = *Sphex niger* Fabricius, 1775], by monotypy.

Motes Kohl, 1897a:351. Type species: "*Notogonia odontophora* Kohl, 1892" [= *Larra odontophora* Kohl, 1894], designated by Pate, 1837c:41.

Caenolarra Cameron, 1900a:28. Type species: *Caenolarra appendiculata* Cameron, 1900 [= *Spanolarra rufitarsis* Cameron, 1900], secondary homonym of *Liris appendiculatus* (Taschenberg, 1870) by monotypy.

Leptolarra Cameron, 1900a:29. Type species: *Leptolarra reticulata* Cameron, 1900, secondary homonym of *Liris reticulatus* (de Saussure, 1892) [= *Leptolara reticuloides* Richards, 1935 = *Liris nigricans reticuloides* (Richards)], designated by Richards, 1935a:164.

Spanolarra Cameron, 1900a:32. Type species: *Spanolarra rufitarsis* Cameron, 1900, by monotypy.

Notogonius Howard, 1901:pl. 6, fig. 1 (June). Lapsus for *Notogonia* A. Costa. Bohart and Menke (1976:43) write the following: There are numerous spelling errors in Howard's book, and we regard *Notogonius* as a lapsus for *Notogonia* Costa. This view was also shared by G.E. Bohart (1951:954) who nevertheless recognized *Notogonius nigripennis* (W. Fox) as type species, an unnecessary action. The specimen figured by Howard is in the U.S. National Museum and is *Liris argentatus* (Palisot de Beauvois), not *nigripennis*.

Chrysolarra Cameron, 1901b:118 (Aug.). Type species: *Chrysolarra appendiculata* Cameron, 1901, secondary homonym of *Liris appendiculatus* (Taschenberg, 1870), designated by Pate, 1837c:18.

Notogonidea Rohwer, 1911d:234. Replacement name for *Notogonia* A. Costa, 1867.

Dociliris Tsuneki, 1967b:26, as subgenus of *Liris*. Type species: *Larrada subtessellata* F. Smith, 1856, by original designation. Synonymized with *Leptolarra* Cameron, 1900, by Menke in Bohart and Menke, 1976:43.

Nigiliris Tsuneki, 1967b:27, as subgenus of *Liris*. Type species: *Notogonia japonica* Kohl, 1885 [= *Liris festinans japonicus* (Kohl)], by original designation. Synonymized with *Leptolarra* by Menke in Bohart and Menke, 1976:43.

Colloliris Tsuneki, 1974b:612, as subgenus of *Liris*. Type species: *Notogonidea negrosensis* F. Williams, 1928, by original designation and monotypy. Synonymized with *Leptolarra* by Menke in Bohart and Menke, 1976:629.

Pitaliris Tsuneki, 1982e:26, as subgenus of *Liris*. Type species: *Cratolarra pitamawa* Rohwer, 1916, original designation.

***alaris* (de Saussure)**

Notogonia alaris de Saussure, 1892:503, ♀, ♂. Lectotype: ♀, Madagascar: Antananarivo or Anosibé in Bezanozano Province (MHNG), designated by Leclercq, 1961d:113 (specific locality not indicated). – **As *Liris alaris***: Arnold, 1945:125 (Madagascar; redescription); R. Bohart and Menke, 1976:244 (listed).

***antaka* (de Saussure)**

Notogonia antaka de Saussure, 1890: pl.19, fig. 7, ♀. Holotype: ♀, illustrated specimen, Madagascar: no specific locality (MHNG). – R. Bohart and Menke, 1976:244 (listed).

Notogonia ancara de Saussure, 1891:260, ♀. Objective synonym of *Notogonia antaka* de Saussure, 1890. Lectotype: ♀, Madagascar: no specific locality (MHNG), unnecessary designation by Leclercq, 1961d:113 (as *antaka*).

Notogonia antaca de Saussure, 1892:505, ♀. Emendation of *Notogonia antaka* and *ancara*. – Bischoff, 1913c:73 (Zimbabwe: Bulawayo); von Schulthess in Friederichs, 1918:47 (Madagascar: Diego Suarez); Berland, 1925c:154 (Angola); Arnold, 1929c:394 (as synonym of *Notogonidea radialis*). – **As *Motes antaca***: Leclercq, 1961d:113 (Madagascar). – **As *Liris antaca***: Arnold, 1945:126 (Madagascar: Behara; redescription).

***avellanipes* (de Saussure)**

Notogonia avellanipes de Saussure, 1890: pl. 19, fig. 8. Holotype: ♀, illustrated specimen ♀, Madagascar: no specific locality (MHNG). – **As *Liris avellanipes***: R. Bohart and Menke, 1976:244 (listed).

Notogonia avellanipes de Saussure, 1891:261, ♀. Objective synonym of *Notogonia avellanipes* de Saussure, 1890. Lectotype: ♀, Madagascar: no specific locality (MHNG), unnecessary designation by Leclercq, 1961d:112. – de Saussure, 1892:508 (Madagascar; redescription); Arnold, 1945:122 (Madagascar; redescription). – **As *Motes avellanipes***: Leclercq, 1960a:97 (Madagascar), 1961d:111 (Madagascar).

***brunnipennis* Arnold**

Liris brunnipennis Arnold, 1945:130, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – R. Bohart and Menke, 1976:244 (listed); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 821 (in checklist of Nosy Boraha Sphecidae). – **As *Motes brunnipennis***: Leclercq, 1960a:97 (Madagascar), 1961d:115 (Madagascar).

***cowani* (W.F. Kirby)**

Larrada cowani W.F. Kirby, 1883:200, sex not indicated (as *Cowani*, incorrect original capitalization). Syntypes: Madagascar: no specific locality (BMNH). – **As *Liris cowani***: R. Turner, 1916b:249 (new combination); R. Bohart and Menke, 1976:245 (listed).

Liris jocositarsa de Saussure, 1887:18, ♂, incorrect original termination. Holotype or syntypes: ♂, Madagascar: no specific locality (MHNG). Synonymized with *Liris cowani* by ...– de Saussure, 1892:515 (Madagascar, redescription); Kohl, 1892:226 (♀), 227 (in key). – **As *Liris haemorrhoidalis* race *jocositarsa***: Arnold, 1945:117 (Madagascar; redescription). – **As *Liris haemorrhoidalis jocositarsa***: Leclercq, 1960a:97 (Madagascar), 1961d:112 (Madagascar); R. Bohart and Menke, 1976:245 (listed); Madl, Matyot, and Schödl, 1996:832 (Seychelles Islands)..

Liris pedestris de Saussure, 1892:517, ♀, ♂. Syntypes: Madagascar: Antananarivo and Anosibé in Tamatave Province (MHNG). Synonymized with *Liris cowani* by R. Turner, 1916b:249 and with *Liris haemorrhoidalis* var. *jocositarsa* by Arnold, 1945. – de Beaumont, 1961f:222 (valid name for *Liris haemorrhoidalis* race *jocositarsa* of Arnold, 1945).

***crepitans* Leclercq**

Liris crepitans Leclercq, 1967b:65, ♂. Holotype: ♂, Madagascar: Maevatanatoa (MNHN). – R. Bohart and Menke, 1976:245 (listed).

***cubitalis* (de Saussure)**

Notogonia cubitalis de Saussure, 1887:17, ♀. Holotype or syntypes: ♀, Madagascar: no specific locality (MHNG or MNHN). – de Saussure, 1892:513 (Madagascar, redescription). – **As *Liris cubitalis***: R. Bohart and Menke, 1976:245 (listed; type locality given as Mauritius).

***dejectus* Arnold**

Liris dejecta Arnold, 1945:129, ♀, ♂, incorrect original termination. Syntypes: Madagascar: Bekily (MNHN). – R. Bohart and Menke, 1976:245 (listed). – **As *Motes dejecta***: Leclercq, 1960a:97 (Madagascar), 1961d:115 (Madagascar).

***dyscheirus* (de Saussure)**

Notogonia dyscheira de Saussure, 1892:510, ♀. Holotype: ♀, Madagascar: Imerina Province: no specific locality (MHNG). – **As *Larra dyscheira***: Kohl in Dalla Torre, 1897:666 (listed, as *dasycheira*). – **As *Motes dyscheira***: Leclercq, 1960a:97 (Madagascar), 1961d:113 (unnecessary designation of lectotype). – **As *Liris dyscheira***: Arnold, 1945:123 (Madagascar, redescription; description of ♂, new combination); R. Bohart and Menke, 1976:245 (listed).

***ganahlia* (Dalla Torre)**

Notogonia rufipes de Saussure, 1892:511, ♀. Holotype: ♀, Madagascar: Antananarivo (MHNG). – **As *Larra rufipes***: Kohl in Dalla Torre, 1987:672 (new combination, listed). – **As *Motes rufipes***: Leclercq, 1961d:116 (Madagascar). – **As *Liris rufipes***: Arnold, 1945:133 (Madagascar).

Larra ganahlia Dalla Torre, 1897:511 (as *Ganahlia*, incorrect original capitalization). Replacement name for *Larra rufipes* (de Saussure, 1892), secondary homonym of *Larra rufipes* (F. Smith, 1858). – **As *Liris ganahlia***: R. Bohart and Menke, 1976:245 (listed).

***gracilicornis* (Arnold)**

Notogonia gracilicornis Arnold, 1923b:250, ♀. Holotype: ♀, Zimbabwe: Bulawayo (SAM). – Arnold, 1929c:397 (description of ♂), 1945:132 (Madagascar). – **As *Liris gracilicornis***: Arnold, 1951:160 (Ghana: Labadi); R. Bohart and Menke, 1976:245 (listed); Dollfuss, 1993a:693 (Central African Republic: Kembe).

***incertus* Arnold**

Liris incerta Arnold, 1945:127, ♀, incorrect original termination. Syntypes: ♀, Madagascar: Behara, Bekily, Ranomafana, Rogez (MNHN). – R. Bohart and Menke, 1976:246 (listed). – **As *Motes incerta***: Leclercq, 1960a:97 (Madagascar), 1961d:113 (Madagascar; comparison with *Liris dejectus*).

***keiseri* (Leclercq)**

Motes keiseri Leclercq, 1961d:114. Holotype: ♀, Madagascar: Tamatave Province: Fampanambo (MHNH). – **As *Liris***: R. Bohart and Menke, 1976:246 (listed).

***memnonius coloripes* Arnold**

Motes radialis coloripes Arnold, 1940:123, sex not indicated. Syntypes: Madagascar: no specific locality (SAM). – **As *Motes setigera coloripes***: Leclercq, 1961d:115 (Madagascar). – **As *Liris setigera coloripes***: Arnold, 1945:129 (Madagascar: Behara, redescription); Leclercq, 1961d:115 (Madagascar). – **As *Liris memnonia coloripes***: R. Bohart and Menke, 1976:246 (listed).

***minimus* (Arnold)**

Notogonia minima Arnold, 1923b:249, ♀, ♂. Holotype: sex not indicated, Zimbabwe: Bulawayo or Hopefontain (SAM). – Arnold, 1929c:397 (description of ♂), 1945:132 (Madagascar). – **As *Liris minima***: R. Bohart and Menke, 1976:246 (listed).

***nigricans* (Walker)**

Larrada nigricans Walker, 1871:21, ♀, ♂. Syntypes: Egypt: Cairo (BMNH). – **As *Notogonia nigricans***: R. Turner, 1917b:319 (new combination; one syntype in BMNH; Egypt, Gibraltar, Cabo Verde Islands); Richards, 1928a:362 (in revision of Mediterranean species); Gussakovskij, 1938:7 (China: Kiangsu Province); Giner Mari, 1947:25 (Western Sahara), 1959:388 (Morocco: Fès; determination?). – **As *Leptolarra nigricans***: Guiglia, 1937:186 (Libya: Cyrenaica; redescription); de Beaumont, 1940a:18 (Egypt). – **As *Motes nigricans***: Guiglia, 1942b:233 (Libya). – **As *Liris nigricans***: de Beaumont, 1947b:390 (Cyprus), 1950d:14 (Egypt: Siwa oasis); de Pittioni,

1950:24 (Cyprus); Beaumont, 1955a:171 (Morocco), 1956a:196 (Libya; Chad: Tibesti), 1956d:2 (Cabo Verde Islands), 1958b:60 (Algeria: Tassili des Ajjer); Suárez *in* Giner Mari, 1959:400 (*Liris nigricans* is the correct name for *Notogonia nigricans* of Giner Mari, 1959:388); de Beaumont, 1960b:237 (Libya), 1961e:4 (Iraq), 1961f:234 (revision), 1967a:330 (Turkey), 1968a:261 (Canary Islands: Gran Canaria); Simon Thomas, 1969a:120 (Canary Islands: Tenerife); de Beaumont, 1970a:400 (Afghanistan); de Beaumont, Bytinski-Salz and Pulawski, 1973:5 (Israel); R. Bohart and Menke, 1976:246 (listed); Georghiou, 1977:190 (Cyprus); Báez and Ortega, 1978:192 (Canary Islands); Guichard, 1978:271 (first record from Greece); Kazenas, 1978b:102, 103 (in key to Sphecidae of Kazakhstan and Central Asia); Guichard, 1980:227 (Oman); Islamov, 1986:524 (Uzbekistan: Tashkent Oblast); Gayubo and Mingo, 1988:74 (Spain); Dollfuss, 1993a:693 (Central African Republic: Kembe); Hohmann, La Roche, Ortega, and Barquín, 1993:220 (detailed records from Canary Islands); Simon Thomas and Wiering, 1993:404 (listed); Torregrosa, Gayubo, Tormos, and Asís, 1993:18 (Spain: Alicante Province); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 821 (in checklist of Nosy Boraha Sphecidae).

Notogonia argyropyga A. Costa, 1875:16, ♀ (nec ♂ which = ?). Holotype (or syntypes): Egypt (Napoli). – Richards, 1928a:361 (as synonym of *Notogonia memnonia*); de Beaumont, 1961f:235 (study of type).

Notogonia sculpturata Kohl, 1892:221, ♂. Holotype: ♂, Egypt: no specific locality (NHMW). Synonymized with *Notogonia nigricans* by R. Turner, 1917b:319. – nec Antiga and Bofill, 1904:10, Mercet, 1910b:165, Berland, 1921, and Bernard, 1934a:62 (= *Liris festinans praetermissa*); Morice, 1911:97 (Algeria: Alger, Biskra), 1921:79 (Iraq: Amara); Dollfuss, 1989:10 (type material in NHMW).

Notogonia reticulata de Saussure, 1892:512, ♀, ♂. Lectotype: ♀, Madagascar: Antananarivo or Anosibé in Bezanzano Province, or Imerina Province (MHNG), designated by Leclercq, 1961d:116 (specific locality not mentioned). – R. Turner, 1911b:370 (Seychelles Islands). – **As *Motes nigricans reticulata***: Leclercq, 1960a:97 (Madagascar), 1961d:116 (Madagascar). – **As *Liris nigricans reticulata***: Arnold, 1945:132 (Madagascar: Bekily). – **As *Liris nigricans var. reticulata***: Arnold, 1951:160 (Ethiopia: Dilla).

Larra jugurthae Gribodo, 1894b:22, ♂, ♀ (as *Jugurthae*, incorrect original capitalization). Lectotype: ♂, "Algeria: Boghari, Biskra", correctly: Tunisia: Tunis (Genova), designated by de Beaumont, 1950e:263. Synonymized with *Liris nigricans* by Guiglia, 1937:186. – de Beaumont, 1950e:263 (synonymy confirmed).

Larra palumbula Kohl, 1894:304, ♂. Holotype or syntypes: ♂, Cameroon: no specific locality (TMP). Synonymized with *Notogonia nigricans* by Richards, 1928a:362, and with *Notogonia reticulata* by Arnold, 1944:23. – **As *Notogonia palumbula***: Kohl, 1906a:219 (new combination, Yemen: Socotra Island); R. Turner, 1917b:319 (merely the tropical race of *nigricans*). – **As *Notogonidea nigricans, race palumbula***: Arnold, 1923b:243 (revision); Schouteden, 1930:91 (Zaire).

Notogonia mahensis Cameron, 1907e:78, ♂. Holotype: ♂, Seychelles Islands: Mahé (BMNH), a headless specimen. Synonymized with *Notogonia reticulata* by R. Turner, 1911b:370.

Notogonia punctipleura Cameron, 1908a:285, ♂. Holotype or syntypes: ♂, Tanzania: Mt. Kilimanjaro: Kibonoto (NRS). Synonymized with *Notogonidea nigricans palumbula* by R. Turner, 1917b:319.

***radialis* (de Saussure)**

Notogonia radialis de Saussure, 1887:17, ♂. Lectotype: ♂, Madagascar: no specific locality (MHNG), designated by Arnold, 1940:123. – de Saussure, 1892:467 (Madagascar, redescription); nec Arnold, 1929:394 (= *Liris memnonius*); Giordani Soika, 1939c:101 (Eritrea: Asmara). – **As *Motes radialis***: Arnold, 1940:123 (synonymy); Leclercq, 1960a:97 (Madagascar), 1961d:114 (Madagascar, illegal designation of lectotype). – **As *Leptolarra radialis***: Guiglia, 1939d:76 (Ethiopia: Sidamo: Malca Guba). – **As *Liris radialis***: Arnold, 1945:127 (Madagascar: redescription and interpretation of the species); R. Bohart and Menke, 1976:247 (listed).

Notogonia radamae de Saussure, 1891:260, ♂ (as *Radamae*, incorrect original capitalization). Holotype or syntypes: ♂, Madagascar: no specific locality (MHNG). Synonymized with *Liris radialis* by Leclercq, 1961d:114. – Friese, 1900:267 (Madagascar: Nosy-Be). – **As *Liris radamae***: Arnold, 1945:127 (Madagascar, redescription, as *Radamae*).

As *Notogonidea sepulchralis*: Arnold, 1923b:244 (revision), corrected to *Notogonidea radialis* by Arnold, 1929c:394.

***sabrinus* (Leclercq)**

Motes sabrina Leclercq, 1961d:114, ♀. Holotype: ♀, Madagascar: Fianarantsoa Province: Ihosy (MHNB). – **As *Liris sabrina***: R. Bohart and Menke, 1976:247 (new combination, listed).

***scabriusculus* Arnold**

Liris scabriuscula Arnold, 1945:131, ♂, incorrect original termination. Syntypes: Madagascar: Bekily (MNHN). – R. Bohart and Menke, 1976:247 (listed). – **As *Motes scabriuscula***: Leclercq, 1961d:115 (Madagascar).

***sepulchralis hova* Arnold**

Liris sepulchralis hova Arnold, 1945:132, ♀, ♂. Syntypes: Madagascar: Behara, Bekily (MNHN). – R. Bohart and Menke, 1976:247 (listed). – **As *Motes sepulchralis hova***: Leclercq, 1960a:97 (Madagascar), 1961d:116 (Madagascar).

***solstitialis* (F. Smith)**

Larrada solstitialis F. Smith, 1856:283, ♀. Syntypes: ♀, South Africa: Natal: Port Natal (BMNH). – **As *Notogonidea solstitialis***: Arnold, 1923b:238 (revision); Schouteden, 1930:92 (Zaire); Arnold, 1933a:352 (Ethiopia: Muger Valley). – **As *Motes solstitialis***: Leclercq, 1960a:97 (Madagascar), 1961d:112 (Madagascar). – **As *Liris solstitialis***: Arnold, 1945:121 (Madagascar; redescription; new combination), 1951:159 (Ghana: Aburi, Accra); de Beaumont, 1961f:228 (revision), 1967b:508 (South Africa: Natal); R. Bohart and Menke, 1976:247 (listed).

Notogonia femoralis de Saussure, 1887:17, ♀. Lectotype: ♀, Madagascar: no specific locality (MHNG), designated by Leclercq, 1961d:112. Synonymized with *Motes solstitialis* by Leclercq, 1961d:112. – de Saussure, 1892:502 (Madagascar, redescription). – **As *Larra femoralis***: Kohl in Dalla Torre, 1897:667 (new combination, listed).

Notogonia cnemophila Cameron, 1908a:288, ♀. Holotype or syntypes: ♀, Tanzania: Mt. Kilimanjaro: Kibonoto (NRS). Synonymized with *Notogonidea solstitialis* by Arnold, 1923b:238.

***utopica* (Leclercq)**

Motes utopica Leclercq, 1961d:116, ♂. Holotype: ♂, Madagascar: Fianarantsoa Province: Infanadiana (MHNB). – **As *Liris utopica***: R. Bohart and Menke, 1976:248 (listed).

***voeltzkowii* (Kohl)**

Notogonia voeltzkowii Kohl, 1909:372, ♀. Holotype: ♀, Madagascar: Tulear, now Toliara (ZMHU or SIF). – **As *Motes voeltzkowii***: Leclercq, 1960a:97 (new combination, forgotten by Arnold, 1945). – **As *Liris voeltzkowii***: R. Bohart and Menke, 1976:248 (listed).

***xanthopterus* Arnold**

Liris xanthoptera Arnold, 1945:121, ♀, ♂, incorrect original termination. Syntypes: Madagascar: Bekily, Fort Dauphin (MNHN). – R. Bohart and Menke, 1976:248 (listed). – **As *Motes xanthoptera***: Leclercq, 1960a:98 (new combination, Madagascar).

LYRODA

Lyroda Say, 1837:372. Type species: *Lyroda subita* Say: 1837, designated by Patton, 1880b:386.

Morphota F. Smith, 1856:293. Type species: *Morphota fasciata* F. Smith, 1856, designated by Pate, 1837c:41.

Odontolarra Cameron, 1900a:35. Type species: *Odontolarra rufiventris* Cameron, 1900 [= *Morphota formosa* F. Smith, 1859], by monotypy.

Lyrodon Howard, 1901:pl. 6, fig. 5. Lapsus for *Lyroda* Say, 1837. Junior homonym of *Lyrodon* Goldfuss, 1837.

***madecassa* Arnold**

Lyroda madecassa Arnold, 1945:91, ♀, ♂. Syntypes: Madagascar: Behara, Bekily (MNHN). – Leclercq, 1960a:97 (Madagascar), 1961d:108 (Madagascar); R. Bohart and Menke, 1976:299 (listed); Leclercq, 1990b:117 (Madagascar).

MISCOPHUS

Miscophus Jurine, 1807:206. Type species: *Miscophus bicolor* Jurine, 1807, by monotypy.

Niteloferus Ashmead, 1897a:22. Type species: *Niteloferus slossonae* Ashmead, 1897, by monotypy.

Hypomiscophus Cockerell, 1898:321. Type species: *Miscophus arenarum* Cockerell, 1898, by original designation.

Miscophinus Ashmead, 1898:187. Type species: *Miscophus laticeps* Ashmead, 1898, by original designation.

***maculipes* Arnold**

Miscophus maculipes Arnold, 1945:136, ♀, ♂. Holotype: ♀, Madagascar: Bekily (MNHN). – Arnold, 1945:135 (in key); Leclercq, 1960a:997 (Madagascar); R. Bohart and Menke, 1976:318 (listed); Lomholdt, 1985:86 (revision); Hancock, Chahwanda, and Mhlanga, 1995:38 (paratypes in Bulawayo Museum).

***seyrigi* Arnold**

Miscophus Seyrigi Arnold, 1945:135, ♀, ♂, incorrect original capitalization. Syntypes: Madagascar: Bekily (MNHN). – Arnold, 1945:135 (in key); R. Bohart and Menke, 1976:319 (listed); Lomholdt, 1985:79 (revision); Hancock, Chahwanda, and Mhlanga, 1995:39 (paratype in Bulawayo Museum).

***sordidatus* Arnold**

Miscophus sordidatus Arnold, 1945:137, ♀, ♂. Holotype: ♀, Madagascar: Bekily (MNHN). – Arnold, 1945:135 (in key); R. Bohart and Menke, 1976:319 (listed); Lomholdt, 1985:98 (revision).

NEODASYPROCTUS

Neodasyproctus Arnold, 1926:373. Type species: *Thyreopus kohli* Arnold, 1926, by monotypy.

***densepunctatus* (Arnold)**

Crabro densepunctatus Arnold, 1945:174, ♀. Lectotype: Madagascar: Ivondro (MNHN), designated by Leclercq, 1999b:156. – **As *Neodasyproctus densepunctatus***: Leclercq, 1954c:256 (new combination, listed); R. Bohart and Menke, 1976:419 (listed); Leclercq, 1999b:156 (in revision of genus).

Neodasyproctus ferrierei Leclercq, 1951h:333, ♂ (as *Ferrierei*, incorrect original capitalization and diacritic mark). Holotype: ♂, Madagascar: no specific locality (MHNG). Synonymized with *Neodasyproctus densepunctatus* by Leclercq, 1996b:156. – Leclercq, 1954c:256 (listed), 1961b:89 (Madagascar, diagnostic characters); R. Bohart and Menke, 1976:419 (listed).

***didynus* Leclercq**

Neodasyproctus didynus Leclercq, 1999b:157, ♀. Holotype: ♀, Madagascar: Tamatave: Didy (FSAG).

***eburneopictus* (Arnold)**

Crabro eburneopictus Arnold, 1945:175, ♀. Holotype: ♀, Madagascar: Ambositra (MNHN). – **As *Neodasyproctus eburneopictus***: Leclercq, 1954c:256 (new combination, listed); R. Bohart and Menke, 1976:419 (listed); Leclercq, 1999b:158 (in revision of genus).

***isalonus* Leclercq**

Neodasyproctus isalonus Leclercq, 1999b:158, ♀. Holotype: ♀, Madagascar: Fianarantsoa: Isalo National Park: Analalva (FSAG).

***protensus* (Arnold)**

Crabro protensus Arnold, 1945:178, ♂. Syntypes: Madagascar: Behara (MNHN). – **As *Neodasyproctus protensus***: Leclercq, 1954c:256 (new combination, listed); R. Bohart and Menke, 1976:419 (listed); Leclercq, 1999b:159 (in revision of genus).

***remanus* Leclercq**

Neodasyproctus remanus Leclercq, 1999b:159, ♂. Holotype: ♂, Madagascar: Fianarantsoa: Vohiparara (FSAG).

***striolatus* (Arnold)**

Crabro striolatus Arnold, 1945:176, ♀. Syntypes: Madagascar: Bekily (MNHN). – **As *Neodasyproctus striolatus***: Leclercq, 1954c:256 (new combination, listed); R. Bohart and Menke, 1976:419 (listed); Leclercq, 1999b:160 (in revision of genus).

OXYBELUS

Oxybelus Latreille, 1796:129, no included species. Type species: *Crabro uniglumis* of Fabricius, 1775 [= *Vespa uniglumis* Linnaeus, 1758], designated by Latreille, 1802b:343 (first included species).

Notoglossa Dahlbom, 1845:514. Type species: *Notoglossa sagittaria* Dahlbom, 1845 [= *Oxybelus lamellatus* Olivier, 1811], by monotypy.

Alepidaspis A. Costa, 1882b:35. Type species: *Alepidaspis diphyllus* A. Costa, 1882, by monotypy.

Anoxybelus Kohl, 1924:274. Type species: *Oxybelus maidli* Kohl, 1924, by monotypy.

Gonioxybelus Minkiewicz, 1934:251. Not available: type species not designated (Article 13.3).

Orthoxybelus Minkiewicz, 1934:251. Not available: type species not designated (Article 13.3).

Gonioxybelus Pate, 1937c:28. Type species: *Oxybelus nigripes* Olivier, 1811 [= *Apis trispinosa* Fabricius, 1787], by original designation.

Orthoxybelus Pate, 1937c:28. Type species: *Vespa uniglumis* Linnaeus, 1758, by original designation.

Euoxybelus Noskiewicz and Chudoba, 1950:300. Not available: type species not designated (Article 13.3).

Latroxybelus Noskiewicz and Chudoba, 1950:300. Type species: *Oxybelus latro* Olivier, 1811, by monotypy.

***cristatus* de Saussure**

Oxybelus cristatus de Saussure, 1892:559, ♀, ♂. Syntypes: Madagascar: Bezanozano Province: Anosibé (MHNG). – Dalla Torre, 1897:640 (in catalog of world Sphecidae); Arnold, 1945:187 (Madagascar; redescription); Leclercq, 1960a:100 (Madagascar), 1961d:118 (Madagascar); R. Bohart and Menke, 1976:367 (listed); Leclercq, 1990b:120 (Madagascar).

***perornatus* Arnold**

Oxybelus perornatus Arnold, 1945:186, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – Leclercq, 1961d:118 (Madagascar); R. Bohart and Menke, 1976:369 (listed); Leclercq, 1990b:120 (Madagascar).

***subcristatus* de Saussure**

Oxybelus subcristatus de Saussure, 1892:561, ♀. Syntypes: ♀, Madagascar: Bezanozano Province: Anosibé (MHNG). – Dalla Torre, 1897:648 (in catalog of world Sphecidae); Arnold, 1945:188 (Madagascar; redescription); Leclercq, 1960a:100 (Madagascar), 1961d:118 (Madagascar); R. Bohart and Menke, 1976:369 (listed); Leclercq, 1990b:120 (Madagascar); Madl, 1997:821 (Madagascar: Nosy Boraha Island), 822 (in checklist of Nosy Boraha Sphecidae).

PARAPIAGETIA

Parapiagetia Kohl, 1897a:373. Type species: *Piagetia odontostoma* Kohl, 1884, by original designation.

Lirosphex Brèthes, 1913b:150. Type species: *Tachysphex subpetiolatus* Brèthes, by original designation. Synonymized with *Parapiagetia* Kohl, 1896 by Menke in Bohart and Menke, 1976:44.

*Psammosphe*x Gussakovskij, 1952:246. Type species: *Tachysphex genicularis* F. Morawitz, 1890, by original designation.

***longicornis* Arnold**

Parapiagetia longicornis Arnold, 1945:93, ♀, ♂. Lectotype: ♀, Madagascar: Behara (MNHN), designated by Pulawski, 1977b:639. – Leclercq, 1961d:108 (Madagascar); R. Bohart and Menke, 1976:281 (listed); Pulawski, 1977b:639 (revision); Leclercq, 1990b:117 (Madagascar).

***pluridentata* Arnold**

Parapiagetia pluridentata Arnold, 1945:94, ♀. Holotype: ♀, Madagascar: Bekily (MNHN). – R. Bohart and Menke, 1976:281 (listed); Pulawski, 1977b:635 (revision).

PERICRABRO

Pericrabro Leclercq, 1954c:219. Type species: *Thyreopus sociabilis* Arnold, 1932, by original designation and monotypy. Established as subgenus of *Crossocerus*, raised to genus by Leclercq, 2000b.

***sociabilis* (Arnold)**

Thyreopus sociabilis Arnold, 1932:27, ♀. Holotype: ♀, Zimbabwe: Bulawayo: Hillside (SAM). – Arnold, 1945:180 (Madagascar: Bekily). – **As *Crossocerus sociabilis***: Leclercq, 1954c:220 (new combination, type of new subgenus *Pericrabro*), 304 (nest and prey records); R. Bohart and Menke, 1976:403 (listed); Rodgers and Homewood, 1982:233 (Tanzania: Usambara Mountains). – **As *Pericrabro sociabilis***: Leclercq, 2000b:160 (new combination, discussion of generic position).

PHILANTHUS

Philanthus Fabricius, 1790:224. Type species: *Philanthus coronatus* Fabricius, 1790 [= *Sphex coronatus* Thunberg, 1784], designated by Shuckard, 1837:246.

Symblephilus Panzer, 1806:171. Type species: *Philanthus pictus* Panzer, 1797 [= *Vespa triangulum* Fabricius, 1775], designated by Pate, 1937c:62.

Simblephilus Jurine, 1807:185. Type species: *Vespa triangulum* Fabricius, 1775, designated by Morice and Durrant, 1915:402.

Cheilopogonus Westwood, 1834:441. Type species: *Cheilopogonus punctiger* Westwood, 1834 [= *Vespa gibbosa* Fabricius, 1775], by monotypy.

Philanthus Guérin-Ménéville, 1835:pl. 71, fig 8. Lapsus for *Philanthus* Fabricius, 1790.

Anthophilus Dahlbom, 1844:190. Type species: *Philanthus politus* Say, 1824, designated by Ashmead, 1899d:294.

Chilopogon Kohl, 1897a:329. Emendation of *Cheilopogonus* Westwood, 1834.

Ephiphilanthus Ashmead, 1899d:294. Type species: *Philanthus solivagus* Say, 1837, by original designation.

Pseudophilanthus Ashmead, 1899d:294. Type species: *Philanthus ventilabris* Fabricius, 1798, by original designation.

Oclocletes Banks, 1913b:423. Type species: *Philanthus sanbornii* Cresson, 1865, by original designation.

Oclocletes Mickel, 1916a:407. Lapsus or emendation of *Oclocletes* Banks, 1913.

***bimacula* de Saussure**

Philanthus bimacula de Saussure, 1891:261, ♀ (actually ♂). Holotype or syntypes: ♀, Madagascar: no specific locality (MHNG). – de Saussure, 1892:535 (Madagascar; redescription, as ♂); Arnold, 1945:16 (Madagascar); Leclercq, 1962b:209 (Madagascar); R. Bohart and Menke, 1976:564 (listed; as *bimaculus*), 565 (footnote: nomenclatorial history); Leclercq, 1990b:120 (Madagascar, as *bimaculus*).

Philanthus immitis de Saussure, 1892:537, ♀. Syntypes: ♀, Madagascar: Antananarivo (MHNG). Synonymized with *Philanthus bimacula* by W. Schulz, 1911b:173.

***madagascariensis* Brethès**

Philanthus petiolatus de Saussure, 1892:538, ♀, ♂ (incorrectly referred to as published in de Saussure, 1891). Syntypes: Madagascar: Imerina Province: no specific locality (MHNG). Primary homonym of *Philanthus petiolatus* Spinola, 1841 (now in *Trachypus*).

Philanthus madagascariensis Brethès, 1910:277. Replacement name for *Philanthus petiolatus* de Saussure, 1892 (incorrectly referred to as published in de Saussure, 1891). – R. Bohart and Menke, 1976:565 (listed); Leclercq, 1990b:120 (Madagascar).

Philanthus ranavalonae Arnold, 1945:16 (as *Ranavalonae*, incorrect original capitalization). Unnecessary replacement name for *Philanthus petiolatus* de Saussure, 1892. – Arnold, 1945:16 (redescription); Madagascar; Leclercq, 1962b:209 (Madagascar, variation).

***radamae* Arnold**

Philanthus radamae Arnold, 1945:17, ♀, ♂. (as *Radamae*, incorrect original capitalization). Syntypes: Madagascar: Behara, Bekily (MNHN). – R. Bohart and Menke, 1976:566 (listed); Leclercq, 1990b:120 (Madagascar); Hancock, Chahwanda, and Mhlanga, 1995:39 (syntypes in Bulawayo Museum).

***triangulum* (Fabricius)**

Vespa ruspatrix Linnaeus, 1767:951, sex not indicated. Holotype: ♀, Africa: no specific locality, probably Algeria (Linnean Society, London). Suppressed by International Commission on Zoological Nomenclature, 1990, Opinion 1578. – Gmelin, 1790:2758 (redescription); Christ, 1791:241 (redescription, as *ruspatrix*); de Saussure, 1855:105 (not a vespid); Day, 1979:71 (study of holotype; possibility of suppression of the name in favor of *triangulum*); Day and Fitton, 1978:194 (recuration of Linnean type material); Pulawski, 1988b:34 (petition to ICZN to suppress the name). – **As *Philanthus ruspatrix***: Menke, 1986b:21 (quotation of Day, 1979:71); Vikberg, 1986:78 (Finland).

Vespa triangulum Fabricius, 1775:373, sex not indicated. Holotype: ♀, Denmark: Copenhagen (ZMK), see van der Vecht, 1961a:61. Synonymized with *Philanthus ruspatrix* by Day, 1979:71 and 80. Conserved by International Commission on Zoological Nomenclature, 1990, Opinion 1578. – Gmelin, 1790:2758 (redescription); van der Vecht, 1961a:61 (study of type); Pulawski, 1988b:34 (petition to ICZN to conserve the name). – **As *Philanthus triangulum***: Fabricius, 1790:224 (new combination), 1793:289 (redescription), 1804:302 (redescription); Thunberg, 1815a:127 (diagnostic characters), 131 (redescription), 1815b:288 (diagnostic characters); Shuckard, 1837a:246 (in revision of British Aculeata); von Siebold, 1839:53 (Germany: Danzig, now Poland: Gdańsk); Lepeletier de Saint Fargeau, 1845:35 (revision); Eversmann, 1849:398 (Russia: Orenburg province and lower Volga area); Wesmael, 1852:268 (Belgium); Kawall, 1854:312 (Czechoslovakia); F. Smith, 1856:468 (listed); Kirchner, 1857:24 (Kurland, now Latvia); Ruthe and Stein, 1857:314 (Germany: Berlin area); Taschenberg, 1858:83 (Germany); Brischke, 1862:102 (Germany: Preussen Province, now Poland: Pomorze); Wierzejski, 1868 (Poland: Kraków, Pieniny Mts.; Ukraine: Lvov); A. Costa, 1869b:112 (in revision of Italian Philanthinae); Aichinger, 1870:316 (Austria: Tirol); Thomson, 1870:241 (in revision of Swedish wasps); Ivanov, 1872:152 (Ukraine: Kharkov area); Bielecki, 1873:80 (Ukraine: Kharkov area); Wierzejski, 1874:260 (Poland: Kraków; Ukraine: Lvov, Podole); Marquet, 1875:204 (France: Haute-Garonne: Toulouse); Taschenberg, 1875:404 (Germany: Halle; Italy: La Spezia; Egypt: no specific locality); Frivaldszky, 1876:354 (Hungary: Temes Komitat: Grebenáč, now in Timiș District in Romania); Schlechtendal, 1876:54 (Germany: Zwickau); Radoszkowski, 1877:52 (Uzbekistan?: Obburden); De Stefani Perez, 1882:39 (Italy: Sicilia: Sciacca); A. Costa, 1883a:57 (Italy: Sardegna); Wüstnei, 1886:40 (Germany: Schleswig-Holstein); Brischke, 1888b:98 (Poland: Pomorze); Radoszkowski, 1888a:324 (male genitalia); Kohl, 1891:365 (listed); Radoszkowski, 1891:579 (reference to Radoszkowski, 1888a); Kohl, 1883e:183 (Egypt: Cairo); Baldini, 1894:61 (Italy: Modena area); De Stefani Perez, 1894:216 (Italy: Sicilia); Krieger, 1894:13 (Germany: Kingdom of Saxony); De Stefani Perez, 1895:227 (in catalog of Sicilian Hymenoptera); Lüderwaldt, 1897:31 (Poland: Pomorze); Ferton, 1899:336 (stinging prey just behind mouth); E. Saunders, 1902b:143 (British Channel Islands); Antiga and Bofill, 1904:22 (Spain: Cataluña Province); Aurivillius, 1904:272 (in revision of Swedish Sphecidae); E. Saunders, 1904c:607 (Spain: Mayorca), 639 (Spain); Zilahy Kiss, 1904:77 (Hungary); W. Schulz, 1905b:61 (Tunisia); von Heyden, 1905:82 (Germany: Hessen); Kohl, 1906a:203 (Yemen: Aden, Makalla); de Gaulle, 1908:120 (in catalog of French Hymenoptera); Kohl, 1909:373 (Tanzania: Mafia Island); Graeffe, 1911:47 (Italy: Trieste area); Morice, 1911:93 (Algeria: abundant everywhere); Birula, 1912:544 (Ukraine: Radomysl near Kiev); Schirmer, 1912:168 (Germany: Berlin area); Bouvier, 1916:205 (males burrows; gregarious nocturnal sites); R. Turner, 1918c:463 (synonymy, distribution: the whole Ethiopian Region); Strand, 1920:23 (Germany: Berlin-Dahlem); Morice, 1921:77 (Iran: Enzeli, Talish); Gennerich, 1922:42 (morphology); Maidl, 1922:69 (Albania, Croatia); Shestakov, 1922:82 (Russia: Stavropol' area); Alfken, 1924:231 (N Germany); Maidl, 1924:243 (Sudan: Sennar); Berland, 1925d:45 (in Sphecidae Fauna of France); Grandi, 1926:283 (life history); Hémon, 1926:199 (France: Finistère: Fouesnant); von Schulthess, 1926b:212 (Algeria, Tunisia, Libya); Wouro, 1927:312 (apicultural pest); Grandi, 1928a:13 (nesting in hard soil, nest entrance closed when the female is inside with prey); Mellor, 1928:126 (preying at honey bee at Ghiza, Egypt), 129 (Egypt); Schouteden,

1930:93 (Zaire); Bischoff, 1931:9 (Spain); Berland, 1932a:23 (France: Var Department; utilizing old charcoal preparation sites for nesting); Giordani Soika, 1932a:21 (Italy: Lido di Venezia); Thiem, 1932:173 (mass outbreak and threat to apiculture in Werra Valley, Germany); Tinbergen, 1932:305 (life history, homing); Bernard, 1933:61 (France: Drôme: Dieulefit); Nadig, 1933:95 (Morocco); Thiem, 1933:121 (threat to apiculture in Werra Valley, Germany); Giner Mari, 1934:131 (Spain); Maidl, 1934:64 (Greece: Aegean Islands: Samos, Amorgos); Thiem, 1934:13, 43 (pest control); Bernard, 1935:62 (France: Var: Fréjus area); Goetze, 1935:304 (pest control); Hausmann, 1935:150 (mass outbreak in Düren District, Germany); Körner, 1935:274 (mass outbreak and damage to apiculture); Pelzer, 1935:310 (mass outbreak in Dinslaken District, Germany); Rudiger, 1935:57 (mass outbreak in Germany and Holland); Thiem, 1935a:348 (end of mass outbreak in Werra Valley, Germany), 1935b:112 (apicultural pest); Tinbergen, 1935:699 (analysis of preying behavior); Crèvecoeur and Maréchal, 1936:254 (Belgium); Pelzer, 1936:41 (description of morphology and nesting behavior); Roller, 1936:315 (Austria: loess cliffs at Bisamberg near Vienna); Guiglia, 1938:8 (Italy: Sardegna); Tinbergen and Kruyt, 1938:292 (study of spacial orientation); Balthasar, 1941b:112 (Czech Republic: eastern Moravia); Bræstrup and Nielsen, 1941:...? (Denmark); Leclercq, 1941b:13 (Belgium: Liège area); Guiglia, 1942a:55 (Greece: Rhodes Island); Audcent, 1942:25 (parasites: *Metopia leucocephala* Rossi, *Sphecapata conica* Fallén); Giner Mari, 1943a:111 (in Sphecid Fauna of Spain); Guiglia, 1943a:69 (Albania); Timon-David, 1943:29 (France: plage de Fos); Guiglia, 1944a:145 (Cyprus; also var. *diadema* Fabr.), 1944b:10 (Italy); Leclercq, 1944:264 (variation in population levels in Belgium); Arnold, 1945:15 (Madagascar); de Beaumont, 1947b:384 (Cyprus); Guiglia, 1947a:28 (Italy), 1948c:200 (Italy: Sardegna); de Andrade, 1949:12 (Portugal); Niesiolowski, 1950:225 (Poland: Lubasz 40 km N Tarnów); Scobiola, 1950:18 (Romania); de Beaumont, 1951c:302 (revision), 1951h:32 (Switzerland: Neuchâtel area); Leclercq, 1951b:67 (yellow body pigments are pterines); Caruel, 1952a:62 (France: Marne Department); Hirschfelder, 1952a (preying behavior); Cleu, 1953:50 (France: Ardèche River basin); Glowacki, 1953:520 (Poland: Warszawa area: Podkowa Leśna, Choszczówka); Leclercq, 1953a:249 (Belgium: particularly abundant about 1900, but infrequent between 1940 and 1952); Móczár, 1953:309 (Hungary); Bischoff and Stadler, 1954:127 (Germany: Bayern: Romberg); Grandi, 1954:236 (Italy); Aerts, 1955:63 (Germany: Rheinland; life history); Steiner, 1955:136 (France: Dordogne); Bytinski-Salz, 1956:224 (Turkey); Hirschfelder, 1956:96 (mass outbreak in Franken, Germany and its control); Leclercq, 1956g:325 (Greece); de Beaumont, 1957b:131 (n. Iran); Evans, 1957b:84 (discussion of larval characters); Grandi, 1957:387 (Italy); Pulawski, 1958a:165 (Bulgaria; diagnostic characters); Compte Sart, 1959:131 (Spain: Mayorca); de Beaumont, 1959a:11 (Italy); Suárez, 1959:54 (Spain: Almería Province); van der Vecht, 1959a:67 (*Sphex xanthocephalus* Forster, 1771, is the oldest name for the species [actually, it is a junior synonym of *Cerceris arenaria*]); Wolf, 1959b:31 (Germany: Nassau); de Beaumont, 1960a:6 (Greece: Rhodes Island); Leclercq, 1960b:130 (massive expansion in 1930s was followed by regression between 1940 and 1952); de Beaumont, 1961b:273 (Afghanistan), 1961c:45 (Greece: Crete Island), 1961e:3 (Iraq); Grandi, 1961:161 (life history), 477 (larva); Hoop, 1961:66 (Germany: Schleswig-Holstein); Leclercq, 1961d:102 (Madagascar); van der Vecht, 1961a:61 (study of type); Leclercq, 1962b:210 (Madagascar); de Beaumont, 1962b:20 (Spain); Erlandsson, 1962:208 (distribution in Scandinavia); Pohl, 1963:14 (an apicultural pest); Scobiola-Palade, 1963:825 (Romania); Babiş, 1964:117 (Austria: Land Salzburg); de Beaumont, 1965a:18 (Greece); B. Klug, 1965:138 (Germany: Rheinland); Roberti, Frilli, and Pizzaghi, 1965:109 (Italy); Piek, 1966a:191-198 (venom); Scobiola-Palade, 1966b:391 (Romania); Balthasar, Hrubant, and Hrubant, 1967:174 (Bulgaria: Slanchev Bryag near Nessebar); de Beaumont, 1967a:277 (Turkey); Heinrich, 1967:70 (Germany: Niederfranken); Niedl and Deneš, 1967:84 (Czechoslovakia); Scobiola-Palade, 1967a:161 (Romania), 1967b:39 (Romania); Benedek, 1968:71 (Hungary; floral records); Scobiola-Palade, 1968b:141 (Romania), 1968c:382 (Romania); de Beaumont, 1969:81 (Turkey); Benedek, 1969a:83 (Hungary; marshy meadow); Dathe, 1969:439 (Germany: Berlin); Romanova, 1969:133 (Russia: North Caucasus); Simon Thomas, 1969b (collection specimens for venom production); Zangheri, 1969:1700 (Italy); de Beaumont, 1970a:396 (Afghanistan), 1970c:4 (Iran: Khorassan); Benedek, 1970:96 (Hungary: Tapolca); Oehlke, 1970:679 (Democratic Germany); Dathe, 1971:234 (Germany: Berlin; phenology); Hoop, 1971:83 (Germany: Schleswig-Holstein); Piek, Mantel, and Engels, 1971:317-331 (venom causing neuromuscular block); Schmidt, 1971b:24 (Germany: Mainz area); Stritt, 1971:104 (Germany: Karlsruhe); Valetta, 1971:46 (Malta); Vegter, 1971:229 (Netherlands: Drenthe Province); Zonderwijk, 1971:79 (Netherlands); Atanassov, 1972a:191

(Bulgaria), 1972b:32, 48, 53 (Bulgaria); Balthasar, 1972:381 (Czechoslovakia; revision); Kazenas, 1972b:123 (Kazakhstan); Myartseva, 1972b:106 (parasite: *Senotainia pygmaea* (Rondani)); Scobiola-Palade, 1972a:149 (Romania), 1972b:251 (Romania); Simon Thomas, 1972:176 (France); Simon Thomas and Poorter, 1972:141 (male behavior); Simon Thomas and Simon Thomas, 1972:123 (nesting behavior); Leclercq, 1973d:166 (regression in Belgium following cold winter of 1942); Simon Thomas and Simon Thomas Heijmans, 1973:64 (Netherlands; life history); Wolf, 1973:41 (Germany: Siegerländer Hüttensand); Erlandsson, 1974:61 (France, Greece, Italy, Malta, Spain); Simon Thomas, 1974:56 (Netherlands: Limburg); Simon Thomas and Veenendaal, 1974b:3 (France); Benedek, 1975:257 (Hungary; onion pollination); Lomholdt, 1975c:31 (Denmark); Piek and Nijo, 1975:199-201 (venom causing neuromuscular block in honeybee); Abdul Rassoul, 1976:31 (Iraq); R. Bohart and Menke, 1976:566 (listed); Simon Thomas, 1976:3 (France: Lot-et-Garonne); Simon Thomas and Simon Thomas, 1976:1-23 (Egypt: Dakhla oasis; life history); Georghiou, 1977:191 (Cyprus); Haeseler, 1977a:23 (Federal Germany), 1977b:289-292 (NW Germany); Kolesnikov, 1977:317 (Russian Federation: Bryansk Oblast); Cruysbergh, 1978:97 (Netherlands); Erlandsson, 1978b:131-134 (Sweden); Guichard, 1978:270 (Greece); Haeseler, 1978b:63 (Federal Germany; bog); Kazenas, 1978b:46 (in key to Sphecidae of Kazakhstan and Central Asia); Leclercq, 1978b:map 1193 (distribution in Belgium); Marion, 1978:86 (France: Nièvre Department); Petit, 1978:86 (Belgium); Simon Thomas and Simon Thomas, 1978:450-456 (life history); Simon Thomas and Veenendaal, 1978:3-8 (underground activity); Schwammerger, 1978:416 (Germany: Württemberg); Lefebber, 1979:33 (Netherlands: distribution); May and Piek, 1979:685 (venom causes neuromuscular block in locust skeletal muscle); Richards, 1979:402 (British Channel Islands); Schmidt, 1979a:54 (Germany: Ost-Holstein), 1979b:298 (Federal Germany); Schwammerger, 1979:114 (Germany: Nordrhein-Westfalen: Gildehauser Venn Nature Reserve); Borg-Karlson and Tengö, 1980:828 (pyrazines as marking volatiles); Casolari and Casolari Moreno, 1980:122 (specimens in M. Spinola collection); Pagliano, 1980:124 (Italy: Piemonte, Sicilia); Piek, Mantel, and Jas, 1980:345 (venom causes ion-channel block in insect muscle fibre membrane); Wollin, 1980:107 (Sweden); Gess, 1981:21 (South Africa: 18 km WNW Grahamstown; nesting in clayey friable soils); Heath and Leclercq, 1981: map 17 (distribution in Europe); Józán, 1981:304 (Hungary: Hortobágy National Park); Woydak, 1981:39 (Germany: Westfalen: Hamm); Clark, Donaldson, Gration, Lambert, Piek, Ramsey, Spanjer, and Userwood, 1992:105 (block of locust muscle glutamate receptors by δ -philanthotoxin); Donath, 1982:212 (Germany: Cottbus Bezirk); Dunbar and Piek, 1982:79-84 (action of venom on insect visceral muscle); Gayubo, 1982e:109 (Spain: Cádiz Province); Leclercq, 1982a:125 (Belgium: Liège); Piek, 1982:311 (effects and components of venom); Piek, Spanjer, Veldsema-Currie, van Groen, de Haan, and Mantel, 1982:159-164 (effect of venom on cockroach abdominal ganglia); van Marle, Piek, Lind, and van Weeren-Kramer, 1982:343 (venom reducing glutamate uptake in nerve endings of locusts muscles); Dollfuss, 1983b:24 (Austria); Gayubo, 1983e:236 (Spain: Salamanca Province); Piek, Buitenhuis, Veldsema-Currie, and Mantel, 1983:153-159 (venom contains acetylcholine, but no histamine); Riemann, 1983:83 (Germany: Bremen-Daverden area); Schmidt and Westrich, 1983:125 (Greece); Burger, de Goffau, and Ulenberg, 1984:147 (Netherlands); Chevin and Silvestre de Sacy, 1984:10 (France: Yvelines Department); Gayubo, 1984c:382 (Portugal: El Algarve Province); Gayubo and Tormos, 1984:23 (Spain: Valencia); Haack, Tschamtker, and Vidal, 1984:132 (Germany: Hamburg area); Janzon and Svensson, 1984:183 (Sweden: Öland Island); Piek, Hue, Pelhate, David, Spanjer, and Veldsema-Currie, 1984:297-306 (philanthotoxin blocking postsynaptic membrane); Schmidt and Westrich, 1984:240 (Federal Germany: Rheinland-Pfalz: Bad Münster); Archer, 1985b:156 (Britain: Suffolk); Chevin and Chevin, 1985:39 (France: Aude); de Man, 1985:23 (Netherlands); Gayubo, 1985a:489 (prey: *Apis mellifera* Linnaeus); Eiroa and Novoa, 1985:23 (Spain: Pontevedra: Barra beach near Cangas); Haeseler, 1985c:571 (Federal Germany: Friesian Islands); Józán, 1985b:62 (Hungary S Lake Balaton), 82 (floral records), 85 (ecological and zoogeographic characteristics); Koster, 1985:75 (Netherlands: common along railways); Lefebber, 1985:87 (Netherlands: southern Limburg); Nilsson, 1985:43 (Sweden); Scobiola-Palade, 1985:95 (Romania: delta of Danube); Gayubo, 1986a:66 (Spain: Ciudad Real Province), 1986b:41 (Spain: Andalucía), 1986d:122 (Spain: Zamora Province), 1986f:1002 (prey); Gayubo and Sanza, 1986:84 (Spain: Burgos, Soria); Gayubo and Tormos, 1986a:19 (Spain: Castellón de la Plana); Islamov, 1986:518 (Uzbekistan: Tashkent Oblast); Józán, 1986:374 (Hungary: Kiskunság National Park); Piek, 1986b:190 (morphological and physiological differences between *triangulum triangulum* and *triangulum abdelcader*); Piek and Mantel, 1986:433 (differences

in venom between Dutch and Egyptian populations); Pagliano, 1987:159 (Italy, in key); Scobiola-Palade, 1987:65 (Romania: Dobrogea); Schmidt and Westrich, 1987: (Federal Germany: Mainz area); Tormos and Jiménez, 1987a:127 (Spain: Valencia Province), 1987b:317 (Spain: Valencia Province: Dehesa de El Saler); Veenendaal, 1987:169 (parasite: *Hedychrum rutilans* Dahlbom); Asís and Jiménez, 1988:276 (Spain: Castellón Province); Chevin, 1988:16 (France: La Manche Department); Dollfuss, 1988:19, 30 (Austria: Bisamberg near Vienna; Niederösterreich: Oberweiden); Karsai, 1988:101 (Hungary: Kiskunság National Park); Kowalczyk, 1988a:45 (Poland: Rogów) Kowalczyk, 1988b:64 (Poland: environs of Łódź); Pagliano, 1988:138 (Italy, revision); Pulawski, 1988:34 (petition to ICZN to preserve the name); Riemann, 1988:223 (Germany: Bremen area); Wolf, 1988:143 (Germany: Rheinland-Westfalen); Archer, 1989b:232 (Great Britain: Suffolk); Borsato, 1989:201 (Italy: Lombardia: Busatello marsh); Hamon, 1989:45 (support of petition to ICZN to preserve the name); Jacobs, 1989:28 (Germany: Mecklenburg-Vorpommern); Józán, 1989:102 (Hungary: Tihany Natural Reserve); Lomholdt, 1989:45 (support of petition to ICZN to preserve the name); Pádr *in* Sedivy, 1989a:166 (in checklist of Czechoslovakian Sphecidae); Scobiola-Palade, 1989:87 (Romania: delta of Danube); Weiffenbach, 1989:107 (Germany: Hessen: Gießen area); Barbier, Rasmont, and Wahis, 1990:32 (Belgium: Hainaut); Gayubo, Asís, and Tormos, 1990b:80 (Spain); Jacobs and Oehlke, 1990:215 (new records from Democratic Germany); Schmidt, McDaniel, and Simon Thomas, 1990:2135 (chemistry of male mandibular gland secretions); Kowalczyk, 1990:290 (Poland: Góry Świętokrzyskie); Pagliano, 1990:95 (in catalog of Italian Sphecidae); Riemann and Melber, 1990:120 (*Calluna*-meadows); Rohe, 1990:1049 (Germany: Rheinland-Pfalz: Lenneberg forest); Schwammberger and Priesner, 1990:553 (Austria: Kärnten); Day, 1991:xviii (summary of European Endangered Hymenoptera Lists); Archer, 1991a:34 (Great Britain: Isle of Wight); Gayubo, 1991a:127 (characteristics of the species); Gayubo, Borsato, and Osella, 1991:419 (Italy); Gayubo and Torres, 1991:Table I and p. 81 (Spain: Salamanca; effects of urban pressure); Guichard, 1991a:338 (Jordan); Jacobs, 1991:46 (Germany: Mecklenburg-Vorpommern: Nature Reserve Elbtaldünen); Jakubzik, 1991:74 (Germany: Köln); Józán, 1991:605 (Hungary: Bátorliget Nature Reserve); Karst and Piek, 1991:479 (action of philanthoxins); Karst, Piek, Van Marle, Lind, and Weeren-Kramer, 1991:471 (action of philanthoxins); Kuhlmann et al., 1991:92 (Germany: Senne Region); Negrisolo, 1991:323 (Italy: Gorizia, Trieste, and Venezia Provinces); Schembri, 1991:177 (Malta); Benson, Schürmann, Kaufmann, Gsell, and Piek, 1992:267 (action of philanthoxins); H.-J.Schulz, 1991:30 (Germany: Oberlausitz: 5 km SW Wittichenau); Gayubo, Borsato, and Osella, 1992:290 (Greece, Spain); Gunnardo, 1992:59 (Sweden: Varmländ); Haeseler, 1992:354 (possibly not native on Frisean Islands); Józán, 1992a:230 (Hungary: Béda-Karapanca Protected Area); Archer, 1993:46 (Great Britain: Channel Islands); Else, 1993a:163 (southern England); Gorobchishin, 1993:47 (Ukraine: Kanev Nature Reserve); Kuhlmann, 1993:76 (Germany: known from Westfalen); Luchetti, 1993:105 (Italy: Sardegna: Maddalena archipelago); Schubert and Schönitzer, 1993:264 (facial fovea not found); Torregrosa, Gayubo, Tormos, and Asís, 1993:20 (Spain: Alicante Province); Archer, 1994b:104 (British Channel Islands); Blagoveshchenskaya, 1994:91 (Russia: Ul'yanovsk Oblast'); Gayubo and Borsato, 1994:219 (Italy: Valle d'Aosta, Liguria, Veneto, Toscana, Sardegna); Gess and Gess, 1994:100 (visiting flowers of *Aspalathus linearis*); Guichard, 1994a:209 (Arabian Peninsula); Schmid-Egger, 1994a:688 (Germany: Rheinland-Pfalz: Höllenberg near Grünstadt); Tormos, Asís, and Gayubo, 1994:190, 225 (Spain: Albacete Province); Baumgarten, 1995:35 (parasite: *Hedychrum rutilans*, a chrysidid); Else, 1995a:24 (records from southern England for 1993), 1995b:205 (records from southern England for 1994); Józán, 1995:105 (Hungary: projected Duna-Dráva National Park); Krasnobayev et al., 1995:139 (Russia: Zhiguli Hills NW Samara); Negrisolo, 1995:18 (visiting flowers of *Eryngium maritimum* L.), 19 (visiting flowers of *Echinophora spinosa* L.), 22 (Italy: Veneto); Pagliano and Pesarini, 1995:92 (Italy: Ferrara Province); Schmid-Egger, Risch, and Niehuis, 1995:187 (color photograph), 205 (summary of records from Germany: Rheinland-Pfalz Province); Archer, 1996a:59 (Great Britain: Channel Islands); S. Gess, 1996:269, 294 (floral records); Harvey and Plant, 1996:81 (Great Britain: summary of records from Essex); Jakubzik, 1996:253 (Germany: Köln); Jakubzik and Cölln, 1996b:400 (Germany: Rheinland-Pfalz); Pawlikowski and Kruszyński, 1996:87 (Poland: Toruń Basin); Schmid-Egger, Schmidt, and Doczkal, 1996:378 (Germany: Baden-Württemberg: not endangered); Voblenko, Gorobchishin, and Nesterov, 1996:15 (Ukraine: Polesye Region); Minoranskiy and Shkuratov, 1996:81 (Russia: Rostov Oblast'); Witt, 1996:106 (Germany: Brandenburg); Woydak, 1996:98 (Germany: Westfalen: summary of distribution and life history); Wu and Zhou, 1996:162 (revision in

Economic Insect Fauna of China); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:292 (in Sphecidae Fauna of Western Europe); Hansen, 1997:189 (southeastern Norway, first country records); Madl, 1997:821 (Madagascar: Nosy Boraha Island), 822 (in checklist of Nosy Boraha Sphecidae); Schmidt and Schmid-Egger, 1997:26 (in checklist of German Sphecidae); Strohm and Linsenmair, 1997a:423 (more sons are produced when prey is restricted), 1997b:23 (minimum prey number to produce a daughter is three; smaller females produce more sons); Dollfuss, Gusenleitner, and Bregant, 1998:525 (Austria: summary of collecting records from Burgenland); Drewes, 1998:49 (Germany: Niedersachsen: Goldbeck 26 km WSW Hamburg); Jakubzik, Schlüter, and Cölln, 1998:1182, 1184 (Germany: Rheinland-Pfalz); Strohm and Linsenmair, 1998:330 (females produce more sons than daughters, regardless of weather conditions); Herrmann, 1999:7 (Germany: Niedersachsen: Oldenburg area; habitats size); Pauly, 1999:111 (in catalog of Belgian aculeates); Zehnder and Zettel, 1999:131 (Switzerland: recolonization of flooded area in Valais Canton).

Vespa fasciata Fourcroy, 1785:433.

Sphex maculatus Christ, 1791:287.

Vespa limbata Olivier, 1792. Synonymized with *Philanthus triangulum* by Kohl, 1891:365 (or an earlier author?).

Crabro androgynus Rossi, 1792:138. Synonymized with *Philanthus apivorus* by Spinola, 1806:96. – Curtis, 1829:pl.273 (illustration); Guérin-Ménéville, 1835:pl. 71, Fig. 8 (illustrations of various morphological details), 1844:442 (explanations of his 1835 figure, *androgynus* is a junior synonym of *triangulum*).

Philanthus pictus Panzer, 1797. Synonymized with *Philanthus apivorus* by Spinola, 1806:96. – Fabricius, 1804:302 (redescription); Thunberg, 1815b:289 (diagnostic characters), 295 (redescription).

Philanthus discolor Panzer, 1799. Synonymized with *Philanthus triangulum* by Kohl, 1891:365 (or an earlier author?). – von Siebold, 1839:53 (Germany: Danzig, now Poland: Gdańsk).

Philanthus apivorus Latreille, 1799:50, sex not indicated. Syntypes: Paris area (lost). Synonymized with *Philanthus triangulum* by Lepeletier de Saint Fargeau, 1845:34 – Spinola, 1806:95 (Italy: Liguria); de Saussure, 1854:8 (belongs to a section with sessile gaster); Dusmet y Alonso, 1906:7 (Spain); Ferton, 1910:1515 (sand closure of nest cell); Dusmet y Alonso, 1915:87 (Spain: Aragón); Lhéritier, 1946:28 (Morocco: Marrakech; life history); Casolari and Casolari Moreno, 1980:122 (specimens in M. Spinola collection).

Philanthus allionii Dahlbom, 1845:495, ♀ (as *Allionii*, incorrect original capitalization). Holotype or syntypes: ♀, Prussia (depository?). Synonymized with *Philanthus triangulum* by Kohl, 1891:366 (or an earlier author?). – Dalla Torre, 1897:492 (in catalog of world Sphecidae, as *allwini*); de Beaumont, 1953h:197 (type material not represented in Dahlbom's collection in Lund).

ssp. *abdelcader* Lepeletier

Philanthus abdelcader Lepeletier, 1845:33, ♀, ♂ (as *Abdelcader*, incorrect original capitalization). Syntypes: Algeria: Oran (MNHN?). – Lucas, 1849:257 (Algeria; as *Abdelcader*), 1880:CXXXVII (Egypt: Ramlé near Alexandria); Girard, 1881:CXXXVIII (Algeria: Palestro; pest of honeybee); Kohl, 1891:366 (as synonym of *Philanthus triangulum*); Roth, 1917:63 (nesting behavior, as *abdelcader*); Lhéritier, 1946:28 (Morocco: Marrakech; life history; as *Abd-el-Kader*); Bradley, 1957:49 (Lepeletier's specimens in Turin); Casolari and Casolari Moreno, 1980:122 (specimens in M. Spinola collection, as *abdel-kader*). – **As *Trachypus abdel-kader***: Casolari and Casolari Moreno, 1980:122 (specimens in M. Spinola collection). – **As *Philanthus diadema* var. *abdelcader***: Gribodo, 1880:400 (Tunisia); A. Costa, 1893b:8 (Tunisia); von Schulthess in Friederichs, 1918:48 (Madagascar: Antananarivo). – **As *Philanthus triangulum* f. *abdelcader***: Balthasar, 1954b:279 (Palestine: Jerusalem and Jericho); – **As *Philanthus triangulum abdelcader***: Mochi, 1939a:90 (Egypt; as *Philanthus triangulum* var. *Abdelcader*); de Beaumont, 1949b:180 (North Africa; revision), 1950f:396 (Algeria, Morocco), 1953g:118 (Morocco), 1956a:183 (Libya); Guiglia, 1957:144 (Italy: Isole Pelagie); de Beaumont and Bytinski-Salz, 1959:141 (Israel); de Beaumont, 1960b:229 (Libya), 1966:211 (Egypt: Abukir); Krombein, 1969a:8 (preying on honeybee in Egypt); Myartseva, 1972a:91 (Turkmenistan); R. Bohart and Menke, 1976:566 (listed); Guichard, 1980:230; Pagliano and Scaramozzino, 1995:730 (Italy: Island of Lampedusa).

ssp. *bimaculatus* Magretti

Philanthus triangulum var. *bimaculatus* Magretti, 1908:188, ♂ (as *bimaculatum*, incorrect original termination). Syntypes: Kenya: Nairobi and Lumbwa (MNHN). – **As *Philanthus triangulum bimaculatus***: R. Bohart and Menke, 1976:566 (listed).

ssp. *diadema* (Fabricius)

Crabro diadema Fabricius, 1781:471, sex not indicated. Holotype or syntypes: South Africa: Cape of the Good Hope (BMNH, Banks coll.). – Fabricius, 1787:297 (redescription), 1790:225 (redescription). – **As *Philanthus diadema***: Fabricius, 1793:289 (new combination, redescription), 1804:302 (redescription); Thunberg, 1815a:127 (diagnostic characters), 129 (redescription), 1815b:287 (diagnostic characters); F. Smith, 1856:471 (listed); Radoszkowski, 1876b:137 (Egypt); Gribodo, 1884:8 (Egypt); de Saussure, 1892:534 (Madagascar); Friese, 1900:268 (Madagascar: Nosy-Be); W. Schulz, 1911b:170 (Gribodo's specimen from Somalia is *Philanthus triangulum*); Schouteden, 1930:93 (Zaire); Casolari and Casolari Moreno, 1980:122 (specimens in M. Spinola collection). – **As *Philanthus triangulum* var. *diadema***: Taschenberg, 1875:404 (Egypt); Gribodo, 1894:129 (Mozambique: Magnarra River), 1895:351 (Mozambique); Bingham, 1902:212 (South Africa, Malawi); Cameron, 1908a:269 (Tanzania: Mt. Kilimanjaro and Mt. Meru), 1910:145 (South Africa: Transvaal); Bischoff, 1912:225 (Zaire: Kassenge at Lake Edward); Arnold, 1925:144 (revision); Scott *in* Arnold, 1933a:369 (Ethiopia: Harar District); Bischoff, 1933:5 (Morocco); Giordani Soika, 1939c:101 (Eritrea: Asmara: Adi Caie); Guiglia, 1938:8 (Italy: Sardegna); Guiglia, 1940b:287 (Somalia); Leclercq, 1955i:408 (Burundi). – **As *Philanthus triangulum diadema***: van der Vecht, 1961a:61 (discussion of type material); de Beaumont, 1967b:505 (South Africa: Natal); Bonelli, 1976:228 (nesting behavior); R. Bohart and Menke, 1976:566 (listed); S. Gess, 1996:280 (floral records); Rodgers and Homewood, 1982:233 (Tanzania: Usambara Mountains).

Philanthus frontalis Gerstaecker *in* Peters, 1858:509, ♀. Holotype or syntypes: ♀, Mozambique: no specific locality (ZMHU). – Kohl, 1891:364 (listed);

Philanthus frontalis Gerstaecker, 1862:473, ♀. Objective synonym of *Philanthus frontalis* Gerstaecker, 1858.

Philanthus transversus Cameron, 1910:147, ♂. Holotype or syntypes: ♂, South Africa: Transvaal: no specific locality (TMP). Synonymized with *Philanthus triangulum diadema* by Brauns, 1917:241.

ssp. *obliteratus* Pic

Philanthus obliteratus Pic, 1917. – **As *Philanthus triangulum obliteratus***: R. Bohart and Menke, 1976:566 (listed).

PISON

Pison Jurine *in* Spinola, 1808:255. Type species: *Pison jurini* Spinola, 1808 [recte *jurinei*, = *Alyson ater* Spinola, 1808], by monotypy.

Tachybulus Latreille, 1809:75. Type species: *Tachybulus niger* Latreille, 1809 [= *Alysson ater* Spinola, 1808], by monotypy.

Nephridia Brullé, 1833b:408. Type species: *Nephridia xanthopus* Brullé, 1833, by monotypy.

Pisonitus Shuckard, 1838:79. Type species: *Pison argentatum* Shuckard, 1838, designated by Pate, 1937c:51.

Pisum Agassiz, 1846:293, junior homonym of *Pisum* Megerle, 1811. Unjustified emendation of *Pison* Jurine, 1808.

Pisonoides F. Smith, 1858:104 (authorship attributed to Shuckard, as subgenus of *Pison*). Type species: *Pison obliteratum* F. Smith, 1858, by monotypy.

Parapison F. Smith, 1869a:298. Type species: *Pisonoides obliteratum* F. Smith, 1858, designated by Pate, 1937c:47.

Pseudonysson Radoszkowski, 1876a:104. Type species: *Pseudonysson fasciatus* Radoszkowski, 1876, by monotypy.

Taranga W.F. Kirby, 1883:201. Type species: *Taranga dubia* W.F. Kirby, 1883 [= *Pison spinolae* Shuckard, 1838].

Paraceramius Radoszkowski, 1887c:432, junior homonym of *Paraceramius* de Saussure, 1854. Type species: *Paraceramius koreensis* Radoszkowski, 1887, by monotypy.

Pisum W. Schulz, 1906:212, junior homonym of *Pisum* Megerle, 1811 and *Pisum* Agassiz, 1846. Unjustified emendation of *Pison* Jurine, 1808.

Krombeiniellum Richards, 1962:118. Replacement name for *Paraceramius* Radoszkowski, 1887.

Entomopison Menke, 1968a:5. Type species: *Pison pilosum* F. Smith, by original designation.

***argentatum* Shuckard**

Pison argentatum Shuckard, 1838:79, ♀ (as *argentatus*, incorrect original termination). Holotype or syntypes: ♀, Mauritius: no specific locality (OXUM?). – F. Smith, 1856:314 (listed); R. Turner, 1916g:594 (in key), 619 (revision); Casolari and Casolari Moreno, 1980:114 (specimens in M. Spinola collection); D. Baker, 1998:173 (type origin and depository). – **As *Pison argentatum***: Kohl, 1885a:186 (listed); de Saussure, 1892:528 (Madagascar, redescription); Bingham, 1897:220 (redescription); R. Turner, 1911b:371 (Seychelles Islands); Bordage, 1912:32 (Isle of Réunion: life history, occasional cleptoparasitism using nests of *Sceliphron hemipterum*, now *fuscum*); Kohl in Bordage, 1912:86 (description of ♂); R. Perkins, 1912:727 (introduced into Hawaii); Maidl, 1924:234 (Sudan: Atbara), 1925a:390 (Indonesia: Sumatra); F. Williams, 1927:438 (makes little cells of mud); Swezey, 1942:185 (Guam, life history); Arnold, 1945:3 (Madagascar; in key); Krombein, 1949b:384 (in key to Sphecidae of Micronesia), 403 (diagnostic characters; Mariana and Caroline Islands), 1950b:139 (additional Micronesian localities); Vesey-Fitzgerald, 1956b:362 (Seychelles); Evans, 1957b:98 (larva); Yoshimoto, 1960:334 (Hawaiian Islands); Tsuneki, 1963c:11 (Thailand); Iwata, 1964b:374 (nesting behavior in Thailand); Yoshimoto, 1965:291 (nesting); Tsuneki, 1974b:636 (Thailand); R. Bohart and Menke, 1976:335 (listed); Tsuneki, 1983a:89 (Philippines; taxonomic comments), 102 (in key); Madl, Matyot, and Schödl, 1996:832 (Seychelles Islands). – **As *Pisonitus argentatus***: F. Smith:1869a:298 (new combination, in checklist of *Pisonitus*).

Pison fuscipalpe Cameron, 1901a:27, ♀. Holotype or syntypes: Singapore (BMNH). Synonymized with *Pison argentatum* by R. Turner, 1916g:619.

Pisonitus argenteus Ashmead, 1904d:131, ♀. Holotype: ♀, Philippines: Bacoor (USNM). Synonymized with *Pison argentatum* by R. Turner, 1916g:619. – Ashmead, 1904d:150 (Philippines).

***humile* Arnold**

Pison humile Arnold, 1945:5, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – Leclercq, 1960a:99 (Madagascar); R. Bohart and Menke, 1976:336 (listed).

***lobiferum* Arnold**

Pison lobiferum Arnold, 1945:6, ♀. Syntypes: Madagascar: Bekily (MNHN). – R. Bohart and Menke, 1976:336 (listed).

***mimicum* Arnold**

Pison mimicum Arnold, 1945:4, ♂. Holotype: ♂, Madagascar: Perinet (MNHN). – R. Bohart and Menke, 1976:336 (listed; misspelled *minicum*); Madl, 1997:820 (Madagascar: Nosy Boraha Island, as *mimicus*), 821 (in checklist of Nosy Boraha Sphecidae, as *mimicus*).

***seyrigi* Arnold**

Pison seyrigi Arnold, 1945:3, ♀, ♂ (as *Seyrigi*, incorrect original spelling). Syntypes: Madagascar: Ivondro (MNHN). – R. Bohart and Menke, 1976:336 (listed); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 821 (in checklist of Nosy Boraha Sphecidae).

PODALONIA

Podalonia Spinola, 1853:53. Suppressed by International Commission on Zoological Nomenclature, 1968:88 (Opinion 857).

Podalonia Fernald, 1927:11. Validated by International Commission on Zoological Nomenclature, 1968:88 (Opinion 857). Type species: *Ammophila violaceipennis* Lepeletier de Saint Fargeau, 1845, designated by International Commission on Zoological Nomenclature, 1968:88 (Opinion 857).

Psammophila Dahlbom, 1842:2, junior homonym of *Psammophila* Brown, 1827. Type species: *Psammophila affinis* (W. Kirby, 1798) [= *Ammophila affinis* W. Kirby, 1798], designated by Fernald, 1927:11.

***canescens madecassa* (Kohl)**

As *Ammophila capensis* de Saussure, 1892:438 (Madagascar), corrected to *Ammophila madecassa* by Kohl, 1909:372. *Ammophila madecassa* Kohl, 1909:372, ♀, ♂. Syntypes: Madagascar: Imerina (ZMHU or SIF). – As *Sphex tydei* race *madecassa*: Arnold, 1945:87 (Madagascar; new status); Leclercq, 1961d:106 (Madagascar, as var. *madecassa*). – As *Podalonia canescens madecassa*: R. Bohart and Menke, 1976:144 (new combination, listed).

POLEMISTUS

Polemistus de Saussure, 1892:565. Type species: *Polemistus macilentus* de Saussure, 1892, designated by Pate, 1937c:52.

Asiatomistus Tsuneki, 1992b:53. Not available: type species not designated (Article 13b).

Asiatomistus Tsuneki, 1993:38. Type species: *Passaloecus barrabas* Pagden, 1933, by original designation.

***macilentus* de Saussure**

Polemistus macilentus de Saussure, 1892:567, ♀. Holotype: ♀, Madagascar: Bezanozano Province: Anosibé (MHNG). – R. Bohart and Menke, 1976:185 (listed). – As *Passaloecus macilentus*: W. Schulz, 1911b:142 (new combination, redescription); Arnold, 1945:151 (Madagascar; revision); Leclercq, 1959a:50 (in key).

PSEN

Psen Latreille, 1796:122 (no included species). Type species: *Sphex ater* Fabricius, 1794 [= *Crabro ater* Olivier, 1792], designated by Latreille, 1802b:338 (first included species).

Psenus Rafinesque, 1815:124. Emendation of *Psen* Latreille, 1796.

Psenia Stephens, 1829b:361. Type species: *Sphex ater* Fabricius, 1794 [= *Crabro ater* Olivier, 1792], designated by Pate, 1937c:54.

Dahlbomia Wissmann, 1849:9. Type species: *Sphex ater* Fabricius, 1794 [= *Crabro ater* Olivier, 1792], by monotypy.

Mesopora Wesmael, 1852:279. Type species: *Psen ater* of Vander Linden, 1829 [= *Sphex ater* of Panzer, 1799 = *Sphex ater* Fabricius, 1794 = *Crabro ater* Olivier, 1792], by monotypy.

Caenopsen Cameron, 1899:55. Type species: *Caenopsen fuscineris* Cameron, 1899, by monotypy.

***leclercqi* van Lith**

Psen leclercqi van Lith, 1974a:53, ♀. Holotype: ♀, Madagascar: no specific locality (FSAG). – van Lith, 1974a:96 (probable member of subgenus *Psen*), 98 (listed); R. Bohart and Menke, 1976:629 (listed).

PSENEO

Pseneo Malloch, 1933:7. Type species: *Psen kohlii* W. Fox, 1898, by original designation.

***madecassus* Arnold**

Psen madecassus Arnold, 1945:152, ♀, ♂. Syntypes: Madagascar: Bekily, Ranomafana, Ivondro (MNHN). – Leclercq, 1961a:15 (listed), 1961d:117 (Madagascar); van Lith, 1974a:56 (supplementary description), 97 (probably member of subgenus *Punctipsen*), 98 (listed); R. Bohart and Menke, 1976:166 (listed). – As *Pseneo madecassus*: Budrys, 1988:109 (new combination).

PSENLUS

Psenulus Kohl, 1897:293. Type species: "*Mimesa fuscipennis* Dahlbom" [= *Psen fuscipennis* Dahlbom, 1843], designated by Ashmead, 1899:224.

Neofoxia Viereck, 1901b:338. Type species: *Psen atratus* of Panzer, 1806 [= *Trypoxylon atratum* Fabricius, 1804 = *Sphex pallipes* Panzer, 1798], by original designation.

Stenomellinus W. Schulz, 1911b:142. Type species: *Psen dilectus* de Saussure, 1892, by monotypy.

Eopsenulus Gussakovskij, 1934b:84. Type species: *Psenulus iwatai* Gussakovskij, 1934, by original designation.

Nipponopsen Yasumatsu, 1938:84. Type species: *Nipponopsen anomoneure* Yasumatsu, 1938, by original designation.

***alboscutevellatus* Arnold**

Psenulus reticulosus var. *alboscutevellatus* Arnold, 1945:156, ♀. Syntypes: Madagascar: Ivondro, Perinet, Ranomafana, Rogez (MNHN). – Leclercq, 1961a:30 (Madagascar: Analandraraka, Mandaraka). – **As *Psenulus alboscutevellatus***: R. Bohart and Menke, 1976:172 (listed).

***dilectus* (de Saussure)**

Psen dilectus de Saussure, 1892:571, ♀. Holotype or syntypes: ♀, Madagascar: Imerina Province: no specific locality (MHNG). – **As *Psenulus dilectus***: W. Schulz, 1911b:141 (new combination, redescription); Arnold, 1945:154 (Madagascar; redescription); Leclercq, 1961a:30 (listed), 1961d:117 (Madagascar); van Lith, 1974a:8 (diagnostic characters), 98 (member of *capensis* species group), 99 (listed); R. Bohart and Menke, 1976:172 (listed).

***fulgidus* Arnold**

Psenulus fulgidus Arnold, 1945:156, ♀, ♂. Syntypes: Madagascar: Behara, Bekily, Ranomafana (MNHN). – Arnold, 1945:154 (in key); Leclercq, 1961a:30 (listed, Madagascar: Fort-Dauphin); van Lith, 1974a:69 (comparison with *Psenulus reticulosus*), 99 (listed); R. Bohart and Menke, 1976:152 (listed).

***reticulosus* Arnold**

Psenulus reticulosus Arnold, 1945:154, ♀, ♂. Syntypes: Madagascar: Perinet, Rogez (MNHN). – Arnold, 1945:154 (in key); Leclercq, 1961a:30 (listed, Madagascar: Mandaraka), 1961d:117 (Madagascar); van Lith, 1974a:70 (supplementary description), 97 (closely related to *Psenulus sapobaensis*), 99 (listed); R. Bohart and Menke, 1976:173 (listed).

PRIONYX

Prionyx Vander Linden, 1827:362. Type species: *Ammophila kirbii* Vander Linden, 1827, by monotypy.

Priononyx Dahlbom, 1843:28. Type species: *Pepsis thomae* (Fabricius, 1804) [= *Sphex thomae* Fabricius, 1775], by monotypy.

Enodia Dahlbom, 1843:28, junior homonym of *Enodia* Hübner, 1819. Type species: *Sphex albisectus* Lepeletier de Saint Fargeau and Serville, 1828 [= *Ammophila kirbii* Vander Linden, 1827], designated by Kohl, 1885b:164.

Harpactopus F. Smith, 1856:264. Type species: *Harpactopus crudelis* F. Smith, designated by Patton, 1880a:384.

Parasphex F. Smith, 1856:267. Type species: *Sphex albisectus* Lepeletier de Saint Fargeau and Serville, 1828 [= *Ammophila kirbii* Vander Linden, 1827], designated by Kohl, 1885b:164.

Gastrosphaeria A. Costa, 1858:10. Type species: *Gastrosphaeria anthracina* A. Costa, 1858 [= *Sphex subfuscatus* Dahlbom, 1845], by monotypy.

Pseudosphex Taschenberg, 1869:420, junior homonym of *Pseudosphex* Hübner, 1818.. Type species: *Pseudosphex pumilio* Taschenberg, 1869, by monotypy.

Calosphex Kohl, 1890b:113. Type species: *Sphex niveatus* Dufour, 1853, designated by Pate, 1937c:15. – **As *Calosphex***: Rohwer, 1913:450 (misspelling).

Neosphex Reed, 1894:627. Type species: *Neosphex albospiniferus* Reed, 1894, by monotypy.

***crudelis* (F. Smith)**

Sphex rufipennis Fabricius, 1793:200, sex not indicated, primary homonym of *Sphex rufipennis* De Geer, 1778. Syntypes: ♀, India: Tamil Nadu: Tranquebar (ZMK). – Lepeletier de Saint Fargeau, 1845:334 (revision); F. Smith, 1856:252 (listed, probably a Brazilian species); Taschenberg, 1869:411 (redescription based on specimens from Brazil); nec Kohl, 1885b:198 (= ...); Ed. André, 1888:150 (in revision of Sphecidae of Europe and Algeria), 9* (bibliographic references); Cameron, 1889c:108 (listed), 112 (records from South America refer to a different species; specimens described by Kohl, 1885b:198, are *luteipennis*); Kohl, 1889a:26 (specimens treated under this name by André, 1888, are several species); Kohl, 1890:408 (as a variety of *Sphex argentatus* which = *Sphex diabolicus*); Casolari and Casolari Moreno, 1980:102 (specimens in M. Spinola collection). – **As *Sphex umbrosus* var. *rufipennis***: Ashmead, 1904d:150 (Philippines).

? *Sphex hirtipes* Fabricius, 1793:207, sex not indicated. Holotype or syntypes: Guinea (depository?), primary homonym of *Sphex hirtipes* De Geer, 1778. Tentatively synonymized with *Harpactopus crudelis* by Kohl, 1890:351. – van der Vecht, 1961a:32 (type material lost, may be a synonym of *Sphex obscurus*); Casolari and Casolari Moreno, 1980:102 (specimens in M. Spinola collection).

Sphex aegyptius Lepeletier, 1845:356, sex not indicated (as *Aegyptia*, incorrect original capitalization and termination), primary homonym of *Sphex aegyptius* Linnaeus, 1758. Lectotype: ♀, Egypt: no specific locality (Torino), designated by Menke in Bohart and Menke, 1976:133. – Taschenberg, 1869:412 (redescription, as *aegyptica*); Kohl, 1885b:181 (in revision of Palearctic *Sphex*); Ed. André, 1888:148 (in revision of Sphecidae of Europe and Algeria), 9* (bibliographic references); Cameron, 1889c:106 (listed); Kohl, 1889a:25 (comparison with *Sphex subfuscatus*); de Saussure, 1892:424 (Madagascar and Mauritius, redescription); Kohl, 1883e:183 (Tanzania: Bagamoyo); Bingham, 1897:245 (redescription); Kohl, 1906a:197 (Yemen: Aden), 1909:370 (Comoros); R. Turner, 1911b:370 (Seychelles Islands); Maidl, 1913:560 (Egypt: Helwan); Strand, 1916b:102 (German East Africa); Maidl, 1924:246 (Sudan: Bara, Gullfan); Berland, 1926c:200 (miscellaneous locality records); von Schulthess, 1927:299 (Iran: Bushehr); Schouteden, 1930:95 (Zaire); Gussakovskij, 1933b:278 (Iran); Giordani Soika, 1939c:105 (Eritrea: Asmara, as *aegyptium*); Berland, 1956:1169 (in revision of African Sphecini); Bradley, 1957:40 (Lepeletier's specimens in Turin); Georghiou, 1977:191 (Cyprus); Casolari and Casolari Moreno, 1980:103 (specimens in M. Spinola collection; as *aegyptia*). – **As *Priononyx aegyptia***: F. Smith, 1856:266 (new combination, listed). – **As *Chlorion aegyptium***: Arnold, 1928c:359 (revision); Scott in Arnold, 1933a:370 (Ethiopia); Arnold, 1935b:1 and 8 (Mauritania: Nema).

Harpactopus crudelis F. Smith, 1856:264, ♀. Holotype or syntypes: ♀, India: Madras (BMNH). Synonymized with *Sphex aegyptius* Lepeletier by Kohl, 1885b:181, and with *Sphex rufipennis* Fabricius by van der Vecht, 1961a:34. – Magretti, 1883:249 (E Africa), 1884b:582 (Ethiopia: Metemma). – **As *Sphex crudelis***: de Beaumont, 1949a:137 (*Sphex crudelis*, and not *soror*, is the correct name for *aegyptius* Lepeletier, nec Linnaeus), 1950d:7 (Egypt: Siwa oasis); Leclercq, 1955h:25 (bibliographic references, faunal records from Africa); de Beaumont, 1960a:5 (Greece: Rhodes Island), 1961e:2 (Iraq); Leclercq, 1961d:108 (Madagascar); de Beaumont, 1962c:221 (Arabia: Riyadh); Diniz, 1964b:237 (Guinea Bissau, redescription); de Beaumont, 1966:211 (Egypt: Abukir), 1967a:273 (Turkey), 1968b:149 (member of *subfuscatus* species group); Guiglia, 1968:164 (Yemen); de Beaumont, 1970c:4 (Iran: Khorassan); Erlandsson, 1974:58 (Greece); Kazenas, 1978b:41 (in key to Sphecidae of Kazakhstan and Central Asia). – **As *Prionyx crudelis***: Myartseva, 1972a:84 (Turkmenistan); R. Bohart and Menke, 1976:133 (listed); Guichard, 1988a:121 (Arabian Peninsula); Jha and Farooqi, 1994:11 (description and illustration of male genitalia).

Sphex grandis Radoszkowski, 1876b:132, ♂. Holotype or syntypes: ♂, Ethiopia: no specific locality (Kraków). Synonymized with *Sphex aegyptius* by Ed. André, 1888:*9.

? *Sphex aegyptius* var. *turcomanicus* Radoszkowski, 1893a:58, sex not indicated. Syntypes: Turkmenistan: Serax (Kraków).

PSEUDOPLISUS

Pseudoplisus Ashmead, 1899d:323. Type species: *Gorytes floridanus* W. Fox, 1891 [= *Pseudoplisus smithii floridanus* (W. Fox, 1891)], by original designation.

***ranosahae* (Arnold)**

Gorytes ranosahae Arnold, 1945:54, ♀, ♂ (as *Ranosahae*, incorrect original capitalization). Syntypes: Madagascar: Ambositra, Ivondro, Rogez (MNHN). – Leclercq, 1960a:100 (Madagascar), 1961d:102 (Madagascar). – **As *Pseudoplisus ranosahae***: R. Bohart in Bohart and Menke, 1976:503 (new combination); Leclercq, 1990b:119 (Madagascar); Callan, 1991d:1612 (life history).

RHOPALUM

Euplilis Risso, 1826:227. Type species: *Euplilis rufiventris* (Panzer, 1799) [= *Crabro rufiventris* Panzer, 1799 = *Sphex clavipes* Linnaeus, 1758], designated by Pate, 1935:246. Suppressed by International Commission on Zoological Nomenclature, 1978:237 (Opinion 1106).

Rhopalum Stephens, 1829a:34. Type species: *Crabro rufiventris* Panzer, 1799 [= *Sphex clavipes* Linnaeus, 1758], designated by J. Curtis, 1837:text accompanying plate 656. See also Stephens, 1829b:366 and J. Curtis, 1829:123.

Physoscelus Lepeletier de Saint Fargeau and Brullé, 1835:804. Type species: *Crabro rufiventris* Panzer, 1799 [= *Sphex clavipes* Linnaeus, 1758], designated by Westwood, 1839:80.

Corynopus Lepeletier de Saint Fargeau and Brullé, 1835:802. Type species: *Crabro tibialis* of Panzer, 1801 [= *Crabro tibialis* of Panzer, 1801 [= *Crabro tibialis* Fabricius, 1798 = *Sphex coarctatus* Scopoli, 1763], by monotypy.

Dryphus Herrich-Schaeffer, 1840:123. Type species: *Crabro tibialis* Fabricius, 1798 = *Sphex coarctatus* Scopoli, 1763], by monotypy.

Physoscelis Westwood, 1839:80. Lapsus or emendation of *Physoscelus* Lepeletier de Saint Fargeau and Brullé, 1835.

Alliognathus Ashmead, 1899d:219. Type species: *Crabro occidentalis* W. Fox, 1895, by original designation. Synonymized with *Corynopus* by Court and R. Bohart in Bohart and Menke, 1975:47.

Calceorhopalum Tsuneki, 1952b:111. Type species: *Rhopalum calceatum* (Tsuneki, 1947) [= *Crabro calceatus* Tsuneki, 1947, primary homonym of *Crabro calceatus* Rossi, 1794 = *Rhopalum pygidiale* R. Bohart, 1976], by original designation.

Latrorhopalum Tsuneki, 1952b:111. Type species: *Rhopalum latronum* (Kohl, 1915) [= *Crabro latronum*, by original designation.

Aporhopalum Leclercq, 1955k:3. Type species: *Rhopalum perforator* F. Smith, 1876, by original designation.

Zelorhopalum Leclercq, 1955k:4. Type species: *Rhopalum aucklandi* Leclercq, 1955, by original designation.

Notorhopalum Leclercq, 1979b:354, as subgenus of *Rhopalum*. Type species: *Rhopalum carnegiicum* Leclercq, 1979, by original designation and monotypy.

ichneumoniforme (Arnold)

Thyreopus ichneumoniformis Arnold, 1927:130, ♀, ♂. Syntypes: South Africa: Cape Province: Mossel Bay (BMNH). – **As *Crabro ichneumoniformis***: Arnold, 1945:169 (Madagascar). – **As *Rhopalum ichneumoniforme***: Leclercq, 1954c:185 (new combination, listed); R. Bohart and Menke, 1976:389 (listed).

SCELIPHRON

Sceliphron Klug, 1801:561. Type species: *Sphex spirifex* Linnaeus, 1758, designated by Bingham, 1897:235.

Pelopoeus Latreille, 1802b:334. Type species: *Pelopoeus spirifex*, Fab." [= *Pelopoeus spirifex* of Fabricius, 1804 = *Sphex spirifex* Linnaeus, 1758], designated by Latreille, 1810:438.

Pelopaeus Latreille, 1804:180. Lapsus or emendation of *Pelopoeus*.

Sceliphrum W. Schulz, 1906:192. Emendation of *Sceliphron* Klug, 1801.

Prosceliphron van der Vecht in van der Vecht and van Breugel, 1968:192, junior homonym of *Prosceliphron* Frenguelli, 1946. Type species: *Sceliphron coromandelicum* (Lepeletier, 1845) [= *Pelopaeus coromandelicus* Lepeletier, 1845], by original designation.

Hensenia Pagliano and Scaramozzino, 1990:5. Replacement name for *Prosceliphron* van der Vecht, 1968. May be unnecessary because *Prosceliphron* Frenguelli, 1946 is in doubt under Article 13 (Menke, 1990:29).

fuscum Klug

Sphex hemipterus Fabricius, 1798:244, sex not indicated, primary homonym of *Sphex hemipterus* Scopoli, 1772. Lectotype: ♂, "Isle de France" (MNHN, coll. Bosc), designated by van der Vecht, 1961a:43 (use of word "type"). – **As *Pelopaeus hemipterus***: Fabricius, 1804:204 (new combination, redescription); Lepeletier de Saint Fargeau, 1845:311 (revision, recorded from France); F. Smith, 1856:229 (listed); Casolari and Casolari Moreno, 1980:101 (specimens in M. Spinola collection). – **As *Sceliphron hemipterum***: de Saussure, 1892:440 (Madagascar); Pérez, 1895b:210 (Seychelles Islands); Friese, 1900:267 (Madagascar: Nosy-Be); Cameron, 1907e:75 (Seychelles Is-

lands; redescription); Kohl, 1909:371 (Madagascar); Turner, 1911b:369 (Seychelles Islands); Bordage, 1912:45 (Réunion Island: use of provisioned nests by *Pison argentatum*), 68 (Réunion Island: life history); R. Turner, 1919b:238 (New Caledonia); Kohl, 1918:108 (revision); Friederichs, 1918:30 (life history); von Schulthess in Friederichs, 1918:48 (Madagascar: Antananarivo, Diego Suarez); Arnold, 1945:86 (Madagascar); Vesey-Fitzgerald, 1950:75 (Seychelles Islands; nesting behavior); Leclercq, 1953b:211 (Madagascar); Vesey-Fitzgerald, 1956b:362 (Seychelles); Leclercq, 1961d:106 (Madagascar); van der Vecht and van Breugel, 1968:237 (revision), 254 (*hemipterum* is invalid junior homonym).

Sceliphron fuscum Klug, 1801:566, sex not indicated. Holotype or syntypes: "Isle de France" (ZMHU). – Strand, 1915:91 (as synonym of *Sceliphron coromandelicum*; authorship attributed to Lepeletier); van der Vecht and van Breugel, 1968:237 (as synonym of *Sceliphron hemipterum*); R. Bohart and Menke, 1976:105 (listed); Madl, Matyot, and Schödl, 1996:831 (Seychelles Islands); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 821 (in checklist of Nosy Boraha Sphecidae).

Sceliphron quodi Vachal, 1907:144, ♀, ♂. Syntypes: New Caledonia: no specific locality (MNHN). Synonymized with *Sceliphron hemipterum* by van der Vecht and van Breugel, 1968:237. – Vachal, 1908:23 (New Caledonia); Kohl, 1918:138 (original description copied).

SPHECIUS

Sphecius Dahlbom, 1843:154. Type species: *Sphecius speciosus* Dahlbom, 1843 (secondary homonym of *Sphecius speciosus* (Drury, 1773)) [= *Sphex speciosus* Drury, 1773], by monotypy.

Hogardia Dufour, 1841:228. Type species: *Hogardia dufourii* Dufour, 1841, by monotypy. Not available: published in synonymy of *Stizus nigricornis* (Article 11e).

Hogardia Lepeletier de Saint Fargeau, 1845:288. Type species: *Hogardia rufescens* Lepeletier, 1845 [= *Stizus hogardi* Latreille, 1806, by tautonymy (Article 68d)].

Sphecius Patton, 1879c:345. Type species: *Stizus nigricornis* Dufour, 1838, by original designation

Nothosphecius Pate, 1936d:199. Type species: *Stizus grandidieri* de Saussure, 1887, by original designation.

grandidieri (de Saussure)

Stizus grandidieri de Saussure, 1887:9, ♀ (as *Grandidieri*, incorrect original capitalization). Holotype or syntypes: ♀, Madagascar: no specific locality (MNHN). – de Saussure, 1892:463 (Madagascar); Friese, 1900:267 (Madagascar: Nosy-Be). – As *Sphecius grandidieri*: Handlirsch, 1895:958 (new combination; redescription); Kohl, 1909:373 (Madagascar: Toliara); Arnold, 1945:67 (Madagascar; redescription); Evans, 1966d:111 (synopsis of known behavior); R. Bohart and Menke, 1976:511 (listed); Leclercq, 1990b:119 (Madagascar).

Sphecius freyi Handlirsch, 1891:27, ♀ (as *Freyi*, incorrect original capitalization) (possibly 1892). Syntypes: ♀, Madagascar: Nosibé (NHMW). Synonymized with *Sphecius grandidieri* by de Saussure, 1892:463.

SPHEX

Sphex Linnaeus, 1758:569. Type species: *Sphex flavipennis* Fabricius, 1793, designated by International Commission on Zoological Nomenclature, 1946:571 (Opinion 180) which reversed its earlier designation as type of *Sphex sabulosus* Linnaeus, 1758 (1911:76, Opinion 32).

Sphaex Scopoli, 1772:122. Lapsus or emendation of *Sphex* Linnaeus, 1758.

Ammobia Billberg, 1820:105. Type species *Pepsis argentata* (Fabricius, 1804) [= *Sphex argentatus* Fabricius, 1787], designated by Rohwer, 1911c:153

Proterosphex Fernald, 1905:163. Type species: *Sphex maxillosus* Fabricius, 1793, junior homonym of *Sphex maxillosus* Poiret, 1787 [= *Sphex funerarius* Gussakovskij, 1934].

Fernaldina R. Bohart and Menke, 1963:130. Type species: *Sphex lucae* de Saussure, 1867. By monotypy.

fumicatus voeltzkowii Kohl

Sphex umbrosus var. *voeltzkowii* Kohl, 1909:370, ♀ (as *Voeltzkowii*, incorrect original capitalization). Syntypes: Madagascar: Tamatave, now Toamasina (ZMHU or SIF). – As *Chlorion umbrosus* var. *Voeltzkowi*: Arnold,

1945:89 (Madagascar; redescription). – **As *Sphex umbrosus voeltzkowi***: Leclercq, 1961d:108 (Madagascar). – **As *Sphex fomicatus voeltzkowii***: R. Bohart and Menke, 1976:115 (listed).

***malagassus* de Saussure**

Sphex malagassus de Saussure, 1890:pl. 18, fig. 38, ♀. Holotype: ♀, illustrated specimen, Madagascar: no specific locality (MHNG). – Berland, 1927:153 (Madagascar); Leclercq, 1953b:211 (Madagascar); R. Bohart and Menke, 1976:115 (listed).

Sphex malagassus de Saussure, 1891:259, ♀, ♂. Objective synonym of *Sphex malagassus* de Saussure, 1890.

Sphex malagassus de Saussure, 1892:259, ♀, ♂. Objective synonym of *Sphex malagassus* de Saussure, 1890. – Leclercq, 1961d:108 (Madagascar); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 821 (in checklist of Nosy Boraha Sphecidae). – **As *Chlorion malagassum***: Arnold, 1945:89 (new combination, Madagascar, redescription).

***torridus* F. Smith**

Sphex torridus F. Smith, 1873c:291, ♀ (as *torrida*, incorrect original termination). Syntypes: ♀, Madagascar: no specific locality (BMNH). – de Saussure, 1892:426 (Madagascar, redescription); Kohl, 1909:370 (Comoros, Madagascar, Mozambique Channel); Turner, 1911b:369 (Seychelles Islands); von Schulthess in Friederichs, 1918:48 (Madagascar: Antananarivo); Berland, 1927:153 (Madagascar); Leclercq, 1953b:211 (Madagascar); Vesey-Fitzgerald, 1956b:362 (Seychelles); Leclercq, 1961d:108 (Madagascar); R. Bohart and Menke, 1976:117 (listed); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 821 (in checklist of Nosy Boraha Sphecidae). – **As *Chlorion torridum***: Arnold, 1945:90 (Madagascar; redescription).

SOLIERELLA

Solierella Spinola, 1851a:349. Type species: *Solierella chilensis* Spinola, 1851, by monotypy.

Sylaon Piccioli, 1869a:pl. 1. Type species: *Silaon compeditus* Piccioli, 1869, by monotypy.

Silaon Piccioli, 1869b:283. Lapsus or emendation of *Sylaon* Piccioli, 1869.

Niteliopsis S. Saunders, 1873:410. Type species: *Niteliopsis pisonoides* S. Saunders, 1873, by monotypy. Gender: feminine (Article 30a of the Code).

Ammosphecidium Kohl, 1878:701. Type species: *Ammosphecidium helleri* Kohl, 1878 [= *Silaon compeditus* Piccioli, 1869], by monotypy.

Lautara Herbst, 1920a:217. Type species: *Lautara jaffueli* Herbst, 1920, by monotypy.

***madagascariensis* Arnold**

Solierella madagascariensis Arnold, 1945:139, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – R. Bohart and Menke, 1976:313 (listed); Lomholdt, 1985:54 (revision); Leclercq, 1990b:117 (Madagascar); Hancock, Chahwanda, and Mhlanga, 1995:39 (paratypes in Bulawayo Museum).

***pallidipes* Arnold**

Solierella pallidipes Arnold, 1945:140, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – Leclercq, 1960a:98 (Madagascar); R. Bohart and Menke, 1976:313 (listed); Lomholdt, 1985:56 (revision); Hancock, Chahwanda, and Mhlanga, 1995:39 (paratypes in Bulawayo Museum).

SPILOMENA

Celia Shuckard, 1837:182. Type species: *Celia troglodytes* (Vander Linden, 1829) [= *Stigmus troglodytes* Vander Linden], by original designation and monotypy. Junior homonym of *Celia* Zimmermann, 1832.

Spilomena Shuckard, 1838:79. Replacement name for *Celia* Shuckard, 1837.

Microglossa Rayment, 1930:212. Type species: *Microglossa longifrons* Rayment, by original designation. Junior homonym of *Microglossa* Voight, 1831.

Microglossella Rayment, 1935:634. Replacement name for *Microglossa* Rayment, 1930.

Taialia Tsuneki, 1971j:10. Type species: *Taialia formosana* Tsuneki, 1971, by original designation and monotypy. Synonymized with *Spilomena* by R. Bohart in R. Bohart and Menke, 1976:41.

seyrigi Arnold

Spilomena seyrigi Arnold, 1945:142, ♀, ♂ (as *Seyrigi*, incorrect original capitalization). Syntypes: Madagascar: Bekily (MNHN). – Leclercq, 1959a:33 (in key), 34 (Madagascar: Ankaratra); R. Bohart and Menke, 1976:193 (listed); Leclercq, 1990b:120 (Madagascar).

STIZOIDES

Stizoides Guérin-Méneville, 1844:438 (as subgenus of *Stizus*). Type species: *Larra fasciata* Fabricius, 1798 (secondary homonym of *Stizus fasciatus* (Fabricius, 1798)) [= *Sphex assimilis* Fabricius, 1787], designated by J. Parker, 1929:10.

Omphalius Vachal, 1900a:534, junior homonym of *Omphalius* Philippi, 1847. Type species: *Omphalius niger* Vachal, 1900a:535 [= *Stizoides niger* (Radoszkowski, 1881:208)], by monotypy.

Scotomphales Vachal, 1900a:843. Replacement name for *Omphalius* Vachal, 1900a:534.

Scotomphales Vachal, 1900b:233. Replacement name for *Omphalius* Vachal, 1900a:534.

Tachystizus Minkiewicz, 1934:251. Not available: type species not designated (Article 13b).

Tachystizus Pate, 1937c:63. Type species: *Crabro tridentatus* Fabricius, 1775, by original designation. Validation of *Tachystizus* Minkiewicz, 1934.

cyanipennis (de Saussure)

Stizus cyanipennis de Saussure, 1887:9, ♀. Holotype or syntypes: Madagascar: no specific locality (MHNG). – Handlirsch, 1892:106 (revision), 1895:188 (redescription); Dalla Torre, 1897:523 (listed); Arnold, 1945:77 (Madagascar; revision). – As *Stizolarra cyanipennis*: de Saussure, 1892:470 (Madagascar, redescription). – As *Stizoides cyanipennis*: Leclercq, 1961d:103 (Madagascar, new combination); Gillaspay, 1963a:378 (listed, in subgenus *Stizoides* s.s.); R. Bohart and Menke, 1976:528 (listed); Leclercq, 1990b:119 (Madagascar; specimen in MNHN erroneously regarded as holotype agrees with Arnold's 1945 redescription); Ohl, 1999a:88 (in revision of the genus).

STIZUS

Stizus Latreille, 1802b:344. Type species: "*Stizus ruficornis*" Fabr. [= *Bembix ruficornis* Fabricius, 1787 (secondary homonym of *Vespa ruficornis* J. Forster, 1771) = *Vespa ruficornis* J. Forster, 1771, designated by Blanchard, 1846:pl.121.

Larra Fabricius sensu Klug, 1845:pl. 46 and text (in part). R. Bohart and Menke (1976:53) commented as follows: *Larra* Fabricius contained unrelated species of sphecids as well as a scoliid and a tiphid. Latreille (1802b) recognized the conglomerate nature of the genus and restricted *Larra* to wasps now placed in the Larrinae. He established the new genus *Stizus* for the remaining sphecids of Fabricius' *Larra*. Klug and F. Smith both restricted *Larra* to species assigned by other authors to Latreille's *Stizus*. F. Smith (1856:273-274, 337) went so far as to designate a type species for *Larra*, although his designation was antedated by that of Latreille, 1810 and others. Species placed in *Larra* By Klug and F. Smith are now assigned to *Stizus*, *Stizoides*, and *Bembecinus*.

Larra Fabricius sensu F. Smith, 1856:337 (in part).

Megastizus Patton, 1879c:344. Type species: *Stizus brevipennis* Walsh, 1869, by original designation.

Stizolarra de Saussure, 1887:9. Type species: *Sphex vespiformis* Fabricius, 1775, designated by Pate 1937c:62.

Megalostizus W. Schulz, 1906:199. Emendation of *Megastizus* Patton, 1879.

berlandi Arnold

Stizus berlandi Arnold, 1945:76, ♀, ♂ (as *Berlandi*, incorrect original capitalization). Syntypes: Madagascar: Bekily, Ranomafana (MNHN). – R. Bohart and Menke, 1976:526 (listed); Hancock, Chahwanda, and Mhlanga, 1995:39 (syntype in Bulawayo Museum).

TACHYSPHEX

Tachyspex Kohl, 1883a:166. Type species: *Tachyspex filicornis* Kohl, 1883 [= *Tachytes fugax* Radoszkowski, 1877], designated by Bingham, 1897:192.

Schistosphex Arnold, 1922:137. Type species: *Schistosphex breijeri* Arnold, 1922, by original designation and monotypy.

Atelosphex Arnold, 1923a:177. Type species: *Atelosphex miscophoides* Arnold, 1923, by original designation and monotypy.

***ambositrae* Leclercq**

Tachysphex ambositrae Leclercq, 1967b:67, ♀. Holotype: ♀, Madagascar: Ambositra (MNHN). – R. Bohart and Menke, 1976:272 (listed).

***anceps* Arnold**

Tachysphex anceps Arnold, 1945:102, ♀. Holotype: ♀, Madagascar: Bekily (MNHN). – R. Bohart and Menke, 1976:272 (listed).

***bruneiceps* Arnold**

Tachysphex bruneiceps Arnold, 1923a:153, ♀, ♂. Syntypes: Zimbabwe: Sawmills and Plumtree (SAM). – Arnold, 1930:3 (listed), 1945:97 (Madagascar), 1951:155 (Ethiopia: River Hawash); Leclercq, 1960a:98 (Madagascar), 1961d:109 (Madagascar); R. Bohart and Menke, 1976:273 (listed); Leclercq, 1990b:117 (Madagascar: Tamatave); Hancock, Chahwanda, and Mhlanga, 1995:40 (syntypes in Bulawayo Museum); Madl, 1997:821 (in checklist of Nosy Boraha Sphecidae).

***crassicornis* Arnold**

Tachysphex crassicornis Arnold, 1945:105, ♀, ♂. Syntypes: Madagascar: Bekily, Ranomafana (MNHN). – R. Bohart and Menke, 1976:273 (listed); Leclercq, 1990b:117 (Madagascar: Bekily).

***excisus* Arnold**

Tachysphex dimidiatus de Saussure, 1892:483, ♂, secondary homonym of *Tachysphex dimidiatus* (Panzer, 1809). Holotype: ♂, Madagascar: Bezanozano: Anosibé (MHNG). – Leclercq, 1960a:98 (Madagascar), 1961d:111 (Madagascar).

Tachysphex dimidiatus var. *excisus* Arnold, 1945:104, ♀, ♂. Syntypes: Madagascar: Behara, Bekily (MNHN). Tentatively synonymized with *Tachysphex dimidiatus* de Saussure by Menke in Bohart and Menke, 1976:273. – Leclercq, 1960:198 (Madagascar). – **As *Tachysphex excisus***: Menke in Bohart and Menke, 1976:273 (new status); Leclercq, 1990b:117 (Madagascar: Ihosy, Tamatave, Tsimbazaza).

***halictiformis* Arnold**

Tachysphex halictiformis Arnold, 1945:100, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – Leclercq, 1960a:98 (Madagascar), 1961d:111 (Madagascar); R. Bohart and Menke, 1976:274 (listed); Leclercq, 1990b:117 (Madagascar: Bekily, Fampanambo).

***insulsus* Arnold**

Tachysphex insulsus Arnold, 1945:104, ♀, ♂. Syntypes: Madagascar: Antanimora, Bekily (MNHN). – R. Bohart and Menke, 1976:274 (listed).

***micromegas* de Saussure**

Tachysphex micromegas de Saussure, 1892:481, ♀, ♂. Syntypes: ♀, Madagascar: Bezanozano Province: Anosibé, and Imerina Province: no specific locality (MHNG). – R. Turner, 1911b:370 (Seychelles Islands); Arnold, 1945:102 (redescription); 1960a:98 (Madagascar, comparison with *Tachysphex perniger*), Leclercq, 1961d:111 (Madagascar); R. Bohart and Menke, 1976:274 (listed); Leclercq, 1990b:118 (Madagascar: faunal records).

Tachysphex sikorae de Saussure, 1892: pl. 27, fig. 2 (as *Sikorae*, incorrect original capitalization). Objective synonym of *Tachysphex micromegas*. Synonymized with *Tachysphex micromegas* by Menke in Bohart and Menke, 1976:274.

***perniger* Arnold**

Tachysphex perniger Arnold, 1947:166, ♀, ♂. Syntypes: Madagascar: Antsirabe (MNHN). – Leclercq, 1960a:98 (comparison with *Tachysphex micromegas*), 99 (Madagascar); R. Bohart and Menke, 1976:275 (listed).

***scaurus* Arnold**

Tachysphex scaurus Arnold, 1945:98, ♀, ♂. Syntypes: Madagascar: Bekily, Ihosy (MNHN). – Leclercq, 1961d:110 (Madagascar); R. Bohart and Menke, 1976:276 (listed).

***sericeus flavofimbriatus* Arnold**

Tachysphex fluctuatus var. *flavofimbriatus* Arnold, 1945:97, ♂. Holotype: ♂, Madagascar: Bekily (MNHN). – Leclercq, 1960a:98 (Madagascar: Bekily). – As *Tachysphex fluctuatus flavofimbriatus*: R. Bohart and Menke, 1976:276. (listed).

***sexinus* Leclercq**

Tachysphex sexinus Leclercq, 1961d:111, ♂. Holotype: ♂, Madagascar: Ranomafana (MHNB). – R. Bohart and Menke, 1976:276 (listed).

***seyrigi* Arnold**

Tachysphex seyrigi Arnold, 1945:99, ♀, ♂ (as *Seyrigi*, incorrect original capitalization). Syntypes: Madagascar: Bekily (MNHN). – Leclercq, 1960a:99 (Madagascar), 1961d:110 (Madagascar); R. Bohart and Menke, 1976:276 (listed); Leclercq, 1990b:118 (Madagascar: Bekily).

***suavis* Arnold**

Tachysphex suavis Arnold, 1929c:385, ♀. Holotype: ♀, Zimbabwe: Bulawayo (SAM). – Arnold, 1930:3 (listed), 1945:97 (Madagascar); Leclercq, 1961d:109 (Madagascar); R. Bohart and Menke, 1976:277 (listed); Leclercq, 1990b:118 (Madagascar: Fort Dauphin).

***subcoriaceus* Arnold**

Tachysphex subcoriaceus Arnold, 1945:98, ♂. Holotype: ♂, Madagascar: Ranomafana (MNHN). – Leclercq, 1961d:109 (description of ♀; Madagascar); R. Bohart and Menke, 1976:277 (listed); Leclercq, 1990b:118 (Madagascar: Nosy-Komba).

***subeditus* Leclercq**

Tachysphex subeditus Leclercq, 1961d:109, ♂, ♀. Holotype: ♂, Madagascar: Toamasina: Foulpointe, now Mahavelona (MHNB). – R. Bohart and Menke, 1976:277 (listed).

***villosus* Arnold**

Tachysphex villosus Arnold, 1947:164, ♀. Holotype: ♀, Madagascar: Bekily (MNHN). – R. Bohart and Menke, 1976:277 (listed).

TACHYTES

Tachytes Panzer, 1806:129. Type species: *Pompilus tricolor* of Fabricius, 1798 [= *Sphex tricolor* Fabricius, 1793 (primary homonym of *Sphex tricolor* Schrank, 1781) = *Sphex tricoloratus* Turton, 1801 = *Tachytes obsoletus tricoloratus* (Turton, 1801)], by monotypy.

Lyrops Illiger, 1807a:162. Type species: *Andrena etrusca* Rossi, 1790, by monotypy. See also Illiger, 1807b:195.

Tachyptera Dahlbom, 1843:133. Type species: *Apis obsoleta* Rossi, 1792, designated by Patton, 1880b:391. Junior homonym of *Tachyptera* Berge, 1842.

Holotachytes R. Turner, 1917d:10. Type species: *Tachytes dichrous* F. Smith, 1856, by original designation.

Calotachytes R. Turner, 1917d:10. Type species: *Tachytes marshalli* R. Turner, 1912, by original designation.

Tachyoides Banks, 1942:397. Type species: *Tachytes mergus* W. Fox, 1892, by original designation.

Tachyplena Banks, 1942:397. Replacement name for *Tachyptera* Dahlbom, 1843. *Tachyplena* can be also regarded as a new genus name because Banks designated *Tachytes mandibularis* Patton, 1880, as type species (Bohart and Menke, 1976:44).

Tachynana Banks, 1942:398. Type species: *Tachytes obscurus* Cresson, 1872 [= *Tachytes chrysopyga obscurus* Cresson, 1872], by original designation.

***argyropis* de Saussure**

Tachytes argyropis de Saussure, 1887:18, ♀. Holotype or syntypes: ♀, Madagascar: no specific locality (MHNG). – de Saussure, 1892:476 (Madagascar, redescription); Kohl, 1909:372 (Madagascar: Imerina, Toamasina, Toliara); von Schulthess in Friederichs, 1918:47 (Madagascar: Antananarivo); Arnold, 1945:108 (Madagascar; revision); Leclercq, 1960a:99 (Madagascar), 1961d:111 (Madagascar); R. Bohart and Menke, 1976:263 (listed); Leclercq, 1990b:118 (Madagascar).

***copiosus* Arnold**

Tachytes copiosus Arnold, 1945:111, ♀, ♂ (as *copiosa*, incorrect original termination). Syntypes: Madagascar: Behara (MNHN). – R. Bohart and Menke, 1976:264 (listed).

***flavocinereus* Arnold**

Tachytes flavocinereus Arnold, 1945:112, ♀, ♂ (as *flavocinerea*, incorrect original termination). Syntypes: Madagascar: Antanimora, Bekily, and Ivondro (MNHN). – Leclercq, 1961d:112 (Madagascar). – As *Tachytes flavocinereus*: R. Bohart and Menke, 1976:265 (listed); Leclercq, 1990b:118 (Madagascar).

***indifferens* Arnold**

Tachytes indifferens Arnold, 1945:110, ♀, ♂. Syntypes: Madagascar: Behara, Bekily (MNHN). – Leclercq, 1960a:99 (Madagascar), 1961d:111 (Madagascar); R. Bohart and Menke, 1976:265 (listed); Leclercq, 1990b:118 (Madagascar); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 821 (in checklist of Nosy Boraha Sphecidae).

***oviventris* de Saussure**

Tachytes oviventris de Saussure, 1891:260, ♀. Holotype or syntypes: ♀, Madagascar: no specific locality (MHNG). – Arnold, 1945:109 (no specimens studied); R. Bohart and Menke, 1976:266 (listed).

Tachytes oviventris de Saussure, 1892:478, ♀. Objective synonym of *Tachytes oviventris* de Saussure, 1891.

***picticornis* Arnold**

Tachytes picticornis Arnold, 1945:111, ♀, ♂. Syntypes: Madagascar: Antanimora, Bekily (MNHN). – R. Bohart and Menke, 1976:266 (listed); Leclercq, 1990b:118 (Madagascar).

***rufomarginatus* Arnold**

Tachytes rufomarginatus Arnold, 1945:109, ♂, ♀ (as *rufomarginata*, incorrect original termination). Syntypes: Madagascar: Bekily (MNHN). – As *Tachytes rufomarginatus*: R. Bohart and Menke, 1976:266 (listed).

TRYPOXYLON

Trypoxylon Latreille, 1796:121, no included species. Type species: *Sphex figulus* Linnaeus, 1758, designated by Latreille, 1802b:339 (first included species).

Tripoxilon Spinola, 1806:65. Lapsus or emendation of *Trypoxylon* Latreille, 1796.

Apius Panzer, 1806:106. Type species: *Sphex figulus* of Panzer, 1801 [= *Sphex figulus* Linnaeus, 1758, by monotypy.

Apius Jurine, 1807:140, junior homonym of *Apius* Panzer, 1806. Type species: *Sphex figulus* of Fabricius, 1775 [= *Sphex figulus* Linnaeus, 1758], designated by Morice and Durrant, 1915:394.

Trypoxilon Jurine, 1807:141 and tableau comparatif, p. 2. Lapsus or emendation of *Trypoxylon* Latreille, 1796.

Trypoxylum Agassiz, 1846:380. Unjustified emendation of *Trypoxylon* Latreille, 1796.

Trypoxylum W. Schulz, 1906:212, junior homonym of *Trypoxylum* Agassiz, 1846. Unjustified emendation of *Trypoxylon* Latreille, 1796.

Trypargilum Richards, 1934:191. Type species: *Trypoxylon nitidum* F. Smith, 1856, by original designation.

Asaconoton Arnold, 1959:322. Type species: *Trypoxylon egregium* Arnold, 1959, by original designation.

***cataractae madecassum* Arnold**

Trypoxylon cataractae madecassum Arnold, 1945:9, ♀, ♂. Syntypes: Madagascar: Ranomafana (MNHN). – R. Bohart and Menke, 1976:345 (listed); Tsuneki, 1981d:83 (Madagascar; additional description); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 821 (in checklist of Nosy Boraha Sphecidae).

***errans* de Saussure**

Trypoxylon errans de Saussure, 1867:84, ♀. Holotype or syntypes: ♀, Mauritius Island or Brazil: no specific locality, actually Mauritius (NHMW or MHNG). – de Saussure, 1892:527 (Mauritius Island, redescription); Friese, 1900:267 (Madagascar: Nosy-Be); R. Turner, 1911b:372 (Seychelles Islands); Bordage, 1912:58 (Isle of Réunion, life history); von Schulthess in Friederichs, 1918:48 (Madagascar: Diego Suarez); Richards, 1934:338 (member of *scutatum* species group), 344 (life history summary); Arnold, 1945:7 (in key); Vesey-Fitzgerald, 1956b:362 (Seychelles); R. Bohart and Menke, 1976:346 (listed); Tsuneki, 1978b:79 and 81 (in key), 1979a:13, 15, 17 (in key), 114 (Mauritius Island, Rodrigues Island, Seychelles, Sri Lanka, India, Nepal, Burma, Thailand, Cambodia, Malaya), 1979b:5 (in key), 20 (Sri Lanka), 1979c:5, 9 (in key), 28 (Indonesia: Java, Sumatra, Sumba), 1980a:11 (in key), 87 (Sulawesi), 1980b:11, 12 (in key), 115 (Philippines), 1981a:6 (in key), 45 (Guam, Hawaii; additional description), 1981c:8, 9 (in key), 42 (Taiwan; additional description), 1981d:17 (Sri Lanka), 29 (India, Singapore, Thailand), 49 (Burma), 78 (Hong Kong), 85 (Tanzania: Zanzibar; additional description), 20, 62 (in key), 1981e:4, 6-8 (in key), 59 (Japan; additional description), 1981f:56 (member of *errans* species group); Madl, Matyot, and Schödl, 1996:833 (Seychelles Islands); Wu and Zhou, 1996:103 (revision in Economic Insect Fauna of China).

Trypoxylon intrudens F. Smith, 1870:188, ♀. Lectotype: ♀, India: North-West Provinces, now Uttar Pradesh: Mainpuri (BMNH), designated with *Trypoxylon errans* by Tsuneki, 1978b:28. Synonymized with *Trypoxylon errans* by Tsuneki, 1978b:28. – Kohl, 1885a:205 (listed); Cameron, 1889c:119 (listed) and 123 (diagnostic characters); Bingham, 1896a:441 (references), 1897:224 (redescription); Green, 1903:68 (nesting in all available holes); Paiva, 1907:15 (India: Mussoorie); Bingham, 1908:355 (India: Purneah); Richards, 1934:315 (member of *figulus* species group); R. Bohart and Menke, 1976:346 (listed); Tsuneki, 1978b:28 (redescription); Pu, 1986:8 (China).

Trypoxylon canaliculatum Cameron, 1889c:122, sex non indicated. Lectotype: ♀, India: Barrackpore or Tirhoot or Mussoorie Hills (OXUM), designated by Tsuneki, 1978b:38. Synonymized with *Trypoxylon errans* by Tsuneki, 1978b:38. – Bingham, 1897:225 (redescription); Cameron, 1889c:118 (listed); R. Bohart and Menke, 1976:345 (listed).

Trypoxylon geniculatum Cameron, 1902f:313, ♀. Lectotype: ♀, India: Assam: Khasia Hills (BMNH), designated by Tsuneki, 1978b:46. Synonymized with *Trypoxylon errans* by Tsuneki, 1978b:46. – Richards, 1934:315 (member of *figulus* species group); Begum, Bose, and Howlander, 1989:126 (life history in Bangladesh); Begum, Khan, and Bose, 1995:176 (Bangladesh: Dhaka University Campus).

Trypoxylon philippinense Ashmead, 1904c:283, ♂ (as *Philippinense*, incorrect original capitalization). Holotype: ♂, Philippines: Luzon: Manila (USNM). Synonymized with *Trypoxylon errans* by Tsuneki, 1978b:72. – F. Williams, 1927 (nesting in hollow twigs), 1931:236 (nesting in hollow twigs); Richards, 1934:343 (life history summary); Krombein, 1949b:381 (in key to Sphecidae of Micronesia), 400 (Marshall Islands); Yoshimoto, 1960:333 (Hawaiian Islands).

Trypoxylon gardineri Cameron, 1907e:76, ♀. Syntypes: ♀, Seychelles Islands: Coetivy (BMNH). Synonymized with *Trypoxylon errans* by R. Turner, 1911b:372. – Tsuneki, 1978b:60 (study of syntypes).

Trypoxylon ornatipes Cameron, 1913:24, "♂" = ♀, primary homonym of *Trypoxylon ornatipes* Cameron, 1889, and of *Trypoxylon ornatipes* W. Fox, 1891. Holotype: ♀, India: (BMNH). Synonymized with *Trypoxylon errans* by Tsuneki, 1978b:60. – Richards, 1934:315 (member of *figulus* species group).

Trypoxylon pulawskii Tsuneki, 1956g:22, ♀, ♂. Holotype: ♀, Japan: Honshu: Utsunomiya (originally K. Tsuneki coll., now Hyogo Mus.). Synonymized with *Trypoxylon errans* by Tsuneki, 1981e:59. – Tsuneki, 1956g:4, 8 (in key), 1966a:22 (Japan: Osaka), 1969e:25 (Japan), 1970d:13 (life history), 1973e:32 (in key), 1973d:150 (Japan: Saitama

Prefecture), 1973e:36 (in key), 1975b:63 (Japan: Saitama Prefecture); Tano, 1994b:43 (holotype in K. Tsuneki collection); Hashimoto and Nakanishi, 1997:23 (holotype transferred to Hyogo Mus.).

Trypoxylon tanoi Tsuneki, 1967d:13, ♂, ♀. Holotype: ♂, Taiwan: Pingtung Prefecture: Fenglian (originally K. Tsuneki coll., now USNM). Synonymized with *Trypoxylon errans* by Tsuneki, 1978b:72. – Haneda, 1971b:30 (Taiwan); Tsuneki, 1971g:7 (Taiwan); Haneda, 1972:4 (Taiwan); Murota, 1973b:117 (Taiwan); Tsuneki, 1973f:44 (Taiwan), 1974b:630 (Thailand; discussion); Nuhn and Menke, 1994:26 (holotype transferred to USNM).

Trypoxylon saitamaense Tsuneki, 1973a:13, ♂. Holotype: ♂, Japan: Saitama Prefecture: Kohnosu (originally T. Nambu coll., now Hyogo Mus.). Synonymized with *Trypoxylon errans* by Tsuneki, 1981e:59. – Nambu, 1973d:150 (Japan: Saitama Prefecture); Tsuneki, 1973e:34, 38 (in key); Nambu, 1975b:63 (Japan: Saitama Prefecture); Tano, 1995:41 (holotype in K. Tsuneki collection); Hashimoto and Nakanishi, 1997:23 (holotype transferred to Hyogo Mus.).

Trypoxylon indicum Menke in Bohart and Menke, 1976:346. Replacement name for *Trypoxylon ornatipes* Cameron, 1913.

***hova* de Saussure**

Trypoxylon hova de Saussure, 1892:525, ♀. Syntypes: ♀, Madagascar: Antananarivo (MHNG). – Arnold, 1945:9 (Madagascar; ♂); Leclercq, 1960a:99 (Madagascar); R. Bohart and Menke, 1976:346 (listed); Tsuneki, 1981d:85 (Madagascar: Isalo, Mahajanga); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 821 (in checklist of Nosy Boraha Sphecidae).

***luteosignatum* Arnold**

Trypoxylon luteosignatum Arnold, 1945:11, ♂, ♀. Syntypes: Madagascar: Behara and Bekily (MNHN). – Leclercq, 1960a:99 (Madagascar); R. Bohart and Menke, 1976:347 (listed); Hancock, Chahwanda, and Mhlanga, 1995:40 (syntype in Bulawayo Museum).

***punctatissimum* Arnold**

Trypoxylon punctatissimum Arnold, 1924:20, ♀. Holotype: ♀, South Africa: Cape Province: Algoa Bay near Port Elizabeth (TMP). – Richards, 1934:338 (member of *scutatatum* species group; as *punctatissimum* Gribodo); Arnold, 1945:11 (Madagascar; ♂); Leclercq, 1960a:99 (Madagascar, nesting in twigs), 1965a:93 (in key), 119 (revision; Zaire); R. Bohart and Menke, 1976:347 (listed); Tsuneki, 1978a:5 (in key); Rodgers and Homewood, 1982:234 (Tanzania: Usambara Mountains).

***scutifrons* de Saussure**

Trypoxylon scutifrons de Saussure, 1892:523, ♀, ♂. Syntypes: Madagascar: Andrangoloaka, Anosibé (MHNG). – Kohl, 1906a:201 (a species with frontal shield), 203 (in key to *scutatatum* group); Kohl, 1909:373 (Madagascar: Toamasina); R. Turner, 1911b:373 (Seychelles Islands); Bordage, 1912:58 (Isle of Réunion: life history); von Schulthess in Friederichs, 1918:48 (Madagascar: Îlot Prune); Richards, 1934:338 (member of *scutatatum* species group), 344 (life history summary); Arnold, 1945:14 (Madagascar); Vesey-Fitzgerald, 1950:75 (new to Seychelles Islands, as *saitifrons*); Leclercq, 1960a:99 (Madagascar, nesting in old nests of *Icaria*, a vespidae; variation), 1961d:101 (Madagascar); R. Bohart and Menke, 1976:347 (listed); Tsuneki, 1978a:6, 7 (in key), 76 (redescription), 86 (relationships to other species), 1981f:47 (single member of *scutifrons* species group); Madl, Matyot, and Schödl, 1996:833 (Seychelles Islands); Madl, 1997:820 (Madagascar: Nosy Boraha Island), 821 (in checklist of Nosy Boraha Sphecidae).

***seyrigi* Arnold**

Trypoxylon seyrigi Arnold, 1945:12, ♀ (as *Seyrigi*, incorrect original capitalization). Syntypes: Madagascar: Bekily, Ivondro, Ranomafana, Roget (MNHN). – R. Bohart and Menke, 1976:348 (listed); Tsuneki, 1978a:7 (in key).

***sinuosiscute* Arnold**

Trypoxylon sinuosiscute Arnold, 1945:13, ♀, ♂, incorrect original termination. Syntypes: Madagascar: Behara, Bekily (MNHN). – Leclercq, 1961d:101 (Madagascar); R. Bohart and Menke, 1976:348 (listed); Tsuneki, 1978a:6 (in

key), 84 (redescription), 86 (relationships to other species), 1981f:17 (single member of *sinuosiscute* species group); Hancock, Chahwanda, and Mhlanga, 1995:40 (syntype in Bulawayo Museum).

***tuberculifrons* Arnold**

Trypoxylon tuberculifrons Arnold, 1945:8, ♀. Holotype: ♀, Madagascar: Rogez (MNHN). – R. Bohart and Menke, 1976:348 (listed).