

Last updated: 4 March 2024

GORYTES

Gorytes Latreille, 1804:180. Type species: *Mellinus quinquecinctus* Fabricius, 1793, by monotypy.

Arpactus Panzer, 1805:Heft 98, text for pl. 17. Type species: *Mellinus quadrifasciatus* Fabricius, 1804, by monotypy.

Arpactus Panzer, 1806:164, junior homonym of *Arpactus* Panzer, 1805. Type species: *Mellinus quadrifasciatus* Fabricius, 1804, designated by Pate, 1937c:11.

Euzonia Stephens, 1829b:363. Type species: *Mellinus quinquecinctus* Fabricius, 1793, designated by Pate, 1937c:27.

Hoplisus Lepeletier de Saint Fargeau, 1832:61. Type species: "*Hoplisus 5-Cinctus* St. Farg." [= *Hoplisus quinquecinctus* of Lepeletier de Saint Fargeau, 1832 = *Mellinus quinquecinctus* Fabricius, 1793], designated by Westwood, 1839:80. Synonymized with *Gorytes* Latreille by Pate, 1935:248.

Euspongos Lepeletier de Saint Fargeau, 1832:66. Type species: *Euspongos laticinctus* Lepeletier de Saint Fargeau, 1832, designated by Westwood, 1839:80.

Pseudoplisis Ashmead, 1899d:323. Type species: *Gorytes floridanus* W. Fox, 1891 [= *Pseudoplisis smithii floridanus* (W. Fox, 1891)], by original designation. Synonymized with *Gorytes* by Nemkov and Pulawski, 2009:7.

Laevigorytes Zavadil in Zavadil and Šnoflák, 1948:66. Type species: *Gorytes kohlii* Handlirsch, 1888, by monotypy. Synonymized with *Pseudoplisis* by Bohart & Menke, 1976:502.

Leiogorytes R. Bohart, 2000:178. Type species: *Leiogorytes guerrero*, by original designation and monotypy. Synonymized with *Gorytes* by Nemkov and Pulawski, 2009:7.

Nest structure: Barth, 1910:119.

Revisions: de Beaumont, 1953 (western Palearctic Region); Nemkov, 1989 (Siberia and Russian Far East), 1990 (USSR); Schmid-Egger, 2002b (western Palearctic Region).

Key: Mokrousov and Proshchalykin, 2021b:174 (Palearctic species).

Review of biology: Kazenas, 2001b:222 (*Gorytes*) and 223 (*Pseudoplisis*).

Species groups: Mokrousov and Proshchalykin, 2021b:170

In key to genera of Gorytina: Nemkov, 2010b:502.

1. *abdominalis* Cresson

Gorytes abdominalis Cresson, 1865:474, ♀, ♂. Lectotype: ♀, USA: Colorado Territory: no specific locality (ANSB), designated by Cresson, 1916:97. – Packard, 1867:425 (in revision of North American aculeates); Handlirsch, 1888b:510 (in revision of world Bembicinae); W. Fox, 1896a:538 (in revision of North American *Gorytes*); Dalla Torre, 1897:536 (in catalog of world Sphecidae); Maidl and Klima, 1939:111 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisis*); Krombein in Muesebeck, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera); Nemkov and Pulawski, 2009:9 (reverted to *Gorytes*, in cladistic analysis of Gorytina). – As *Hoplisus abdominalis*: Cresson, 1887:279 (in catalog of North American Hymenoptera); Ashmead, 1890:32 (in checklist of Hymenoptera of Colorado). – As *Pseudoplisis abdominalis*: Ashmead, 1899:328 (new combination, in checklist of North American Crabronidae); R. Bohart, 1969b:393 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1695 (in catalog of North American Hymenoptera).

2. *aqualis* Handlirsch

Gorytes aequalis Handlirsch, 1888b:505, ♀, ♂. Syntypes: Mexico: Michoacán: Angangueo, as Angang (coll. de Sausure, Geneva, actually NHMW). – Cameron, 1890a:77 (bibliographic reference); Dalla Torre, 1897:536 (in catalog

of world Sphecidae); Maidl and Klima, 1939:111 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisis*); Nemkov and Pulawski, 2009:9 (reverted to *Gorytes*, in cladistic analysis of Gorytina). – As ***Pseudoplisis aequalis***: Ashmead, 1899:328 (new combination, in checklist of North American Crabronidae); R. Bohart, 1969b:393 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Dollfuss, 1989:12 (type material in NHMW); Amarante, 2002:17 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae).

Gorytes handlirschi Cameron, 1890a:78, ♀, ♂, junior primary homonym of *Gorytes handlirschi* F. Morawitz, 1890.

Syntypes: Mexico: Guerrero: Xucumanatlán (BMNH). Synonymized with *Pseudoplisis aequalis* by R. Bohart in R. Bohart and Menke, 1976:503.

Gorytes cameronis Handlirsch, 1895:927 (as *Cameronis*, incorrect original termination). Substitute name for *Gorytes handlirschi* Cameron. – Handlirsch, 1895:927 (original description of *Gorytes handlirschi* Cameron translated into German); Dalla Torre, 1897:538 (in catalog of world Sphecidae); Maidl and Klima, 1939:111 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisis*). – As ***Pseudoplisis cameronis***: Ashmead, 1899:328 (new combination, in checklist of North American Crabronidae).

3. *africanus* Mercet

Gorytes africanus Mercet, 1905:464, ♀. Syntypes: ♀, Morocco: Tanger (MNCN). – Maidl and Klima, 1939:47 (in catalog of world Astatinae and Bembicinae); de Beaumont, 1953f:195 (in revision of western Palearctic *Gorytes*), 1953g:114 (Morocco); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Gayubo, 1982d:107 (Spain), 1983e:2234 (Spain: Salamanca Province); Gayubo and Sanza, 1986:75 (Spain: Burgos); Nemkov, 1990b:683, 685 (in key to *Gorytes* of USSR); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:191 (in Sphecid Fauna of Western Europe); Schmid-Egger, 2002b:175 (in revision of western Palearctic *Gorytes*); Baños-Picón, Asís, Gayubo, and Tormos, 2009:311 (Spain: frequency of specimens collected with hand nets and Malaise traps); Nemkov, 2017:Table p. 5 (in zoogeographic analysis of Palearctic Bembicinae); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:239 (in Sphecid Fauna of Europe); Mokrousov and Proshchalykin, 2021b:175 (in key to Palearctic *Gorytes*).

4. *aino* Tsuneki

Gorytes aino Tsuneki, 1963a:16, ♀, ♂. Holotype: ♀, Japan: Hokkaido: Jozankei (originally K. Tsuneki coll., now Hyogo Mus.). – Tsuneki, 1963a:4, 6 (in key of Gorytini of Japan and Korea), 1965c:31, 32 (in key to Bembicinae of Japan and Korea); T. Iida, 1968:21 (Japan); Tsuneki, 1970b:9 (central Japan); Yamada, 1970:14 (Japan: Nagano Prefecture: Shimajima Valley); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Kazenas, 1980e:83 (Russia: Primorskiy Kray); Nemkov, 1989:69, 71 (in key to *Gorytes* of Siberia and Russian Far East), 1990b:682, 684 (in key to *Gorytes* of USSR); Tano, 1994a:8 (holotype in K. Tsuneki collection); Nemkov in Nemkov, Kazenas, Budrys, et Antropov, 1995:463, 464 (in key to Sphecidae of Russian Far East); Hashimoto and Nakanishi, 1997:24 (holotype transferred to Hyogo Mus.); Haneda, Nosaka, Tano, Kurokawa, and Murota, 2004:38 (Japan: Gifu Prefecture); Suda, 2004:46 (Japan: Yamanashi Prefecture); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:54 (Japan: Gifu Prefecture); Kinota, Haneda, and Tano, 2005:31 (Japan: Hokkaido); Nemkov, 2005a:159 (Russia: Island of Sakhalin); Takahashi, 2006a:4 (prey: *Sinophora submacula* Metcalf and Horton, an aphrophorid); Terayama, 2006:8, 10 (in key to Japanese Bembicinae); Nemkov, 2007b:75 (Russia: Kuril Islands: Island of Kunashir), 2008b:24 (in catalog of Crabronidae of Asiatic Russia), 2009b:134 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2012c:446 (in catalog of Crabronidae of Russian Far East), 2017a:Table p. 5 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:222 (in catalog of Bembicinae of Russia); Itami, 2018:9 (Japan: Niigata Prefecture), 15 (color photograph); Jacobs and Liebig, 2018:141 (Russia: Primorskiy Kray: Saratovka); Mokrousov and Proshchalykin, 2021b:177 (in key to Palearctic *Gorytes*).

5. *albidulus* (Lepeletier de Saint Fargeau)

Mellinus dissectus Panzer, 1801, Heft 80:18, [♀], junior primary homonym of *Mellinus dissectus* Panzer, 1800. Holotype or syntypes: Germany: no specific locality (depository?). – Spinola, 1806:93 (Italy: Liguria); Peets, 1909-1911:67 (*Mellinus dissectus* of Panzer = *Gorytes dissectus*); Blüthgen, 1949:89 (homonymy). – As *Arpactus dissectus*: Panzer, 1806:166 (new combination, in critical review of his earlier work); Jurine, 1807:194 (in checklist of species of *Arpactus*). – As *Hoplisus dissectus*: Lepeletier de Saint Fargeau, 1832:65 (new combination, in revision of Gorytini of western Europe); Wesmael, 1839:77 (unknown to the author); Kirchner, 1867:220 (in catalog of European Hymenoptera); Dours, 1874:150 (in catalog of Hymenoptera of France); Flamary, 1898:45 (France: Saône-et-Loire: Mâcon area); de Gaulle, 1908:120 (in catalog of French Hymenoptera); Schirmer, 1912:166 (Germany: Berlin area); A. Wagner, 1920:33 (Germany: Lower Elbe region, not found but can be expected); Noskiewicz, 1922a:8 (Poland: Lwów area, now Ukraine: Lviv area); Schneid., 1941:1040 (Germany: Bayern: Bamberg area); Szulczewski, 1950:107 (Poland: Wielkopolski National Park 15 km south of Poznań); Casolari and Casolari Moreno, 1980:121 (specimens in M. Spinola collection, Torino); Pagliano, 2014:90 (specimens in M. Spinola collection, Torino, are *Gorytes albidulus*). – As *Euspongus dissectus*: Herrich-Schaeffer, 1840:290 (new combination, Germany: Bayern: Regensburg area); Bat'a, 1942:86 (Czech Republic). – As *Gorytes dissectus*: Vander Linden, 1829:101 (new combination, bibliographic references, Germany); Handlirsch, 1888b:473 (in revision of world Bembicinae); Krieger, 1894:8 (Germany: Kingdom of Saxony); Handlirsch, 1895:915 (additional bibliography); Dalla Torre, 1897:540 (in catalog of world Sphecidae); Mocsáry, 1897:82 (Hungary); Handlirsch, 1898b:488 (Algeria); Antiga and Bofill, 1904:16 (Spain: Cataluña Province); Mercet, 1906a:132, 141 (in key to Spanish *Gorytes*); Schmiedeknecht, 1907:219, 221 (in key to Hymenoptera of Central Europe); Dittrich, 1911b:23 (Germany: Niederschlesien Province, now Poland: Dolny Śląsk Region); Birula, 1912:540 (Ukraine: Zhytomyr Oblast': Radomyshl'); Szilády, 1914:89 (Hungary: Nagyenyed); O. Meyer, 1919:153 (Germany: Posen Province, now Poland: Poznań Region); Dubois, 1920:88 (Belgium: Knocke), 1922:200, 202, 203 (in key to Belgian Sphecidae); Berland, 1925d:89 (in Sphecid Fauna of France); Schmiedeknecht, 1930:681, 683 (in key to Hymenoptera of North and Central Europe); Pulkkinen, 1931:63 (in revision of Sphecidae of Finland, not yet found in Finland); Zavadil, 1932:95 (Czechoslovakia); Grandi, 1934:129 (Italy: Lazio: Acilia); Crèvecœur and Maréchal, 1936:253 (in catalog of Belgian Hymenoptera); Drogoszewski, 1936:129 (Poland: Łowicz); Goebel, 1937:41 (Poland: Poznań District: Poznań-Dębina and Środa District: Tulce); Zavadil, Šustera, and Bat'a, 1937:190 (in catalog of Sphecidae of Czechoslovakia); Móczár, 1938c:81 (Hungary: Kőszeg Hills); Maidl and Klima, 1939:66 (in catalog of world Astatinae and Bembicinae); Balthasar, 1941b:113 (Czech Republic: eastern Moravia); Paul, 1941:44 (Germany: Pommern: Stettin area, now Poland: Województwo Zachodniopomorskie: Szczecin area); Giner Marí, 1943a:179 (in Sphecid Fauna of Spain); de Beaumont, 1945:475 (first record from Switzerland); Zavadil, 1946:8 (Czechoslovakia: Ostrava area); Šnoflák in Zavadil and Šnoflák, 1948:73 (in key to Sphecidae of Czechoslovakia); Móczár, 1953:310 (Hungary); de Beaumont, 1954e:89 (Italy); Vogrin, 1955:35 (Yugoslavia); Ceballos, 1956:382 (in catalog of Hymenoptera of Spain); Zirngiebl, 1957:181 (Germany: Rheinland-Pfalz: Birkenheide, Dürkheimer Bruch); Scobiola-Palade, 1959:497 (Romania: Constanța Region: Agiea); Niedl and Deneš, 1967:82 (Czech Republic: Třeboň area).

Hoplisus albidulus Lepeletier de Saint Fargeau, 1832:65, ♀ (as *Albidulus*, incorrect original capitalization). Holotype: ♀, France: Paris area (depository?). Synonymized with *Gorytes dissectus* by de Beaumont, 1951g:312. – Dahlbom, 1843:163 (in revision of Sphecidae and Pompilidae), 1845:482 (in key to European *Hoplisus*); Lepeletier de Saint Fargeau, 1845:64 (in revision of world Hymenoptera); Schenck, 1861:1512 (redescription, Germany: Hessen: Wiesbaden); Schenck, 1867a:355 (Germany: Nassau Region); von Aichinger, 1870:318 (Austria: Tirol); Radoszkowski, 1892:582 (male genitalia); Acloque, 1897:83 (in Sphecid Fauna of France and Algeria). – As *Gorytes albidulus*: F. Smith, 1856:362 (new combination, in catalog of Hymenoptera in British Museum); Kohl, 1880:171 (Austria: Tirol, and Italy: Trentino-Alto Adige); de Beaumont, 1951g:312 (Italy: Lazio: Acilia; selected *albidulus* as valid name acting as first reviser), 1953f:173 (valid species name, in revision of western Palearctic *Gorytes*); Grandi,

1954:232 (Italy); Bajári, 1957a:105 (in key to Hungarian Sphecidae); Wolf, 1959b:30 (Germany: Nassau); Noskiewicz and Puławski, 1960:90, 93 (in key to Polish Sphecidae); de Beaumont, 1962b:23 (Spain); Ceballos, 1964:91 (in supplement to catalog of Spanish Sphecidae); de Beaumont, 1964c:48 (in Sphecid Fauna of Switzerland), 1965a:35 (Greece), 1967a:312 (Turkey); Gauss, 1967:552 (Germany: Baden-Württemberg); J. Heinrich, 1967:71 (Germany: Bayern: Kahl); Scobiola-Palade, 1967a:161 (Romania: Constanța District: Comarova); Benedek, 1968:72 (Hungary, visiting flowers of *Pastinaca sativa* L., Apiaceae), 1969a:83 (Hungary; marshy meadow); Zangheri, 1969:1701 (Italy: in catalog of flora and fauna of Romagna Region); Benedek, 1970:97 (Hungary: Tapolca); Oehlke, 1970:687 (Democratic Germany); Schmidt, 1971b:27 (Germany: Mainz area); Tsuneki, 1971k:189 (Mongolia); Baltazar, 1972:316 (in Sphecid Fauna of Czechoslovakia); Kazenas, 1972b:151 (Kazakhstan); Scobiola-Palade, 1972b:252 (Romania); Kazenas, 1974b:110 (feeding on flowers of *Euphorbia* spp., Euphorbiaceae, in Kazakhstan); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Kolesnikov, 1977:317 (Russia: Bryansk Oblast'); Kazenas, 1978b:75, 76 (in key to Sphecidae of Kazakhstan and Central Asia); Leclercq, 1978b:map 1183 (distribution in Belgium); Marion, 1978:87 (France: Nièvre Department); Pulawski, 1978:202, 203 (in key to Sphecidae of European part of USSR); Schmidt, 1979b:346 (Germany: Baden-Württemberg); Skibińska, 1982:123 (Poland: Warszawa area); Dollfuss, 1983a:76 (Austria: endangered in Niederösterreich), 77 (Austria: endangered in Burgenland), 1983b:22 (in catalog of Sphecidae of Austria); Józan, 1985b:61 (Hungary: recorded from Simontornya by Bajári, 1957), 84 (ecological and zoogeographic characteristics); Westrich and Schmidt, 1985b:111 (Germany: extinct in Baden-Württemberg); Gayubo and Sanza, 1986:76 (Spain: Burgos); Islamov, 1986:522 (Uzbekistan: Tashkent Oblast'); Józan, 1986:373 (Hungary: Kiskunság National Park); Dollfuss, 1988:30 (Austria: Niederösterreich: Oberweiden); Karsai, 1988:101 (Hungary: Kiskunság National Park); Pádr in Šedivý, 1989a:167 (in checklist of Czechoslovakian Sphecidae); Jacobs and Oehlke, 1990:122 and 211 (not collected in Democratic Germany after 1960); Nemkov, 1990b:681, 685 (in key to *Gorytes* of USSR), 686 (southern and central European USSR, Caucasus, Kazakhstan, Uzbekistan); Pagliano, 1990:70 (in catalog of Italian Sphecidae); Day, 1991:xv (summary of European Endangered Hymenoptera Lists); Dollfuss, 1991:199 (in key to Sphecidae of North and Central Europe); Delarze, 1992:67 (Switzerland: Valais: Les Follatères); Pagliano, 1992:37, 39 (in key to Italian Bembicinae); K. Weber, 1992:87 (Germany: Bayern: Bamberg District); Kuhlmann, 1993:75 (Germany: known from Westfalen); Dollfuss, 1994:99 (endangered in Austria); Jansen and Kaluza, 1995:7 (Germany: extinct in Sachsen); Kazenas and Esenbekova, 1995:80 (Kazakhstan; bibliographic reference to leafhopper prey); Negrisolo in Minelli, Ruffo, and La Posta, 1995b:4 (in catalog of Italian fauna); Pagliano and Pesarini, 1995:91 (Italy: Ferrara Province); Scharrer, 1995:29 (Austria: Niederösterreich: Ober-Weiden); Schmid-Egger, Risch, and Niehuis, 1995:185 (Germany: summary of records from Rheinland-Pfalz); Voblenko, Gorobchishin, and Nesterov, 1996:15 (Ukraine: Polesye Region); Minoranskiy and Shkuratov, 1996:81 (Russia: Rostov Oblast'); Schmid-Egger, Schmidt, and Doczkal, 1996:377 (Germany: Baden-Württemberg: not collected after 1955), 104 (not recorded after 1950); Woydak, 1996:94 (Germany: Westfalen: summary of distribution and nesting behavior); Wu and Zhou, 1996a:143 (in revision in Economic Insect Fauna of China); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:191 (in Sphecid Fauna of Western Europe); Celary, 1997:60 (in checklist of Animals of Poland); Schmidt and Schmid-Egger, 1997:14 (in checklist of German Sphecidae); F. Burger, Saure, and Oehlke, 1998:27 (Germany: in list of Sphecidae of Brandenburg), 32 (extinct); Dollfuss, Gusenleitner, and Bregant, 1998:522 (Austria: summary of collecting records from Burgenland); Gusenleitner, 1998:499 (Austria: Burgenland: Zurndorf); K. Weber, 1998:140 (Germany: Bayern: Bamberg area); W. Klein, 1999:22 (in improved key to male *Gorytes* of Benelux); Kuhlmann, Wolf, and Woydak, 1999:568 (Germany: extinct or presumably extinct in Nordrhein-Westfalen); Pauly, 1999:111 (in catalog of Belgian aculeates); Zehnder and Zettel, 1999:131 (Switzerland: recolonization of flooded area in Valais Canton); Blösch, 2000:380 (in Sphecid Fauna of Germany); Esenbekova and Kazenas, 2000:60 (southeastern Kazakhstan: 1-3 km northwest of Zhabagly); Kazenas, 2001b:46 (in checklist of Sphecidae of Kazakhstan and Central Asia), 223 (review of biology); Ohl et al., 2001:139 (distribution in Germany by provinces); Kazenas, 2002a:120 (geographic distribution, collecting localities in Kazakhstan); Schmid-Egger, 2002b:175 (in revision of western Palearctic *Gorytes*); Mandery, Kraus,

Voith, Wickl, Scheuchl, Schubert, and Warncke, 2003:66 (Germany: in catalog of wasps and bees of Bayern); Wickl, Voith, Mandery, Weber, Kraus, Bausenwein, and Blösch, 2003:195 (Germany: Bayern: extinct or no longer collected); Esser, Jakubzik, Sonnenburg, and Woydak, 2004:262 (Germany: in checklist of Sphecidae of Nordrhein-Westfalen); Gorobchishin, 2004:34 (Ukraine: Zaporiz'ka Oblast': Obitichna Kosa Nature Reserve); Kazenas, 2004b:109 (Kazakhstan: western Tien Shan); Shkuratov, 2004a:75 (Russia: Rostov Oblast'); Skibińska *in* Bogdanowicz, Chudzicka, Pilipiuk, and Skibińska, 2004:355 (in catalog of Polish Crabronidae); Stolle et al., 2004:371 (Germany: Sachsen-Anhalt: last collected in 1909); Wiśniowski, 2004:51 and 62 (in checklist of Polish Sphecidae); Gayubo and Özbek, 2005:17 (Turkey: Bingöl, Erzurum: Tortum, Aksu Plateau); Kofler, 2005:184 (Austria: Tirol: Lienz District: Forchach in Lavant Common); Pagliano and Negrisolo, 2005:142 (in Sphecid Fauna of Italy); Saure, 2005:15 (Germany: Berlin); Shoreiko, 2005a:167 (Ukraine: Crimea); Straka, 2005a:394 (extinct in Czech Republic); nec Yildirim and Ljubomirov, 2005:1791 (= *Gorytes quadrifasciatus* and *sulcifrons*); Ebrahimi, 2006:1 (Iran); Gorobchishin, 2006:139 (Ukraine: Kyiv); Hua, 2006:280 (in list of Chinese insects, geographic distribution); Ljubomirov, 2006:540 (Bulgaria: records from Rhodope Mountains summarized, also: Mutenitsa River valley); Jacobs, 2007:172, 175 (in key to Crabronidae of Germany); Saure, 2007:82 (Germany: in checklist of Aculeata of Land Brandenburg); Shoreiko, 2007b:258 (Ukraine: Crimea: Otuzy valley); Vepřek and Straka, 2007:208 (in catalog of Sphecidae of Czech Republic and Slovakia); Ebrahimi, 2008:95 (first record from Iran: Azerbajian-e Shargi: Marand); Ljubomirov and Yildirim, 2008:77 (in catalog of Crabronidae of Turkey); Baños-Picón, Asís, Gayubo, and Tormos, 2009:311 (Spain: frequency of specimens collected with hand nets and Malaise traps); U. Frommer, 2009a:27 (Germany: in checklist of Sphecidae of Hessen), 34 (Germany: Hessen: locality records, latest record is from 1959); Shoreiko, 2009:368 (in list of Sphecidae *sensu lato* of Crimea); Baghirov, 2010:678 (Russia: Altai Territories: villages Aktash, Biskamzha, and Ust'-Kan); Bitsch, 2010:112 (in supplement to vol. II of Faune de France, 1997: recent records from Austria, Bulgaria, Croatia, Italy, and Switzerland reported); Esser, Fuhrmann, and Venne, 2010:36 (Germany: in checklist of aculeates of Nordrhein-Westfalen); Rudoiskatel', 2010:150 (Russia: southern Ural Mountains); Schmid-Egger, 2010a:16 (in red list of Aculeata of Germany: extinct, last collected in 1959); Shoreiko and Konovalov, 2010:15 (Ukraine: Khar'kov Oblast': Mokhnach); van der Smissen, 2010b:384 (France: Vaucluse: Bédoin); Baghirov, 2011b:141 (Russia: Altay Republic: Aktash, Ust'-Kan); Józan, 2011:183 (in checklist of Sphecidae *sensu lato* of Hungary); Tischendorf, Frommer, Flügel et al., 2011:42 (Germany: extinct in Hessen, last collected in 1934); Yildirim, 2012:76 (Turkey: Artvin, Erzurum, and İğdır provinces); Kazenas, 2013b:497 (southeastern Kazakhstan: Sortogay in Sharyn River valley); A. Scholz and Liebig, 2013:20 (Germany: Sachsen: in list of Sphecidae *sensu lato*); Wiśniowski and Piotrowski, 2013:21 (Poland: Poleski National Park); Wiśniowski and Szczepko, 2013:35 (Poland: Kampinos National Park near Warszawa); Ebrahimi, 2014:33 (Iran: Āzarbāijān-e Sharghi: Marand); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); Shoreiko, 2015:337 (in list of Sphecidae *sensu lato* of Crimea); Stolle and Saure, 2016:923 (Germany: in list of Sphecidae *sensu lato* of Sachsen-Anhalt); Yıldırım, Ljubomirov, Özbek, and Yüksel, 2016:13 (Turkey: Bingöl and Erzurum provinces); Jahantigh, Rakhshani; Mokhtari, and Ramroodi, 2017:36 (Iran: known from East Azerbaijan Province); Nemkov, 2017a:Table p. 5 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:222 (in catalog of Bembicinae of Russia); Shoreiko, 2017:79 (in Crimea collected in May and June); Jacobs and Liebig, 2018:141 (Russia: Irkutsk Oblast': Bol'shoje Goloustnoye and Sarma); Kemal and Koçak, 2018:34 (Turkey: in list of pterygot insects of Van Province); Shoreiko, 2018:129 (Crimea, including localities, habitats, and number of specimens); Mokrousov, Proshchalykin, Aliyev, and Maharramov, 2019:11 (Azerbaijan: Nakhichevan Autonomous Republic); Bitsch, Barbier, and Jacobs *in* Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:239 (in Sphecid Fauna of Europe); Shoreiko, 2020:49 (Crimea: Karadag Nature Reserve); Mokrousov and Proshchalykin, 2021b:175, 177 (in key to Palearctic *Gorytes*); Kaplan and Yıldırım, 2021:30 (in catalog of Crabronidae of Turkey); Olszewski, Wiśniowski, and Ljubomirov, 2021:90 (in commented list of Sphecidae *sensu lato* of Poland); Can, 2022:223 (supernumerary submarginal cell); Kaplan and Yıldırım, 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

Euspongus albilabris Lepeletier de Saint Fargeau, 1832:70, ♂ (as *Albilabris*, incorrect original capitalization). Syntypes: France: Bordeaux and no specific locality (MNHN). Synonymized with *Gorytes dissectus* by Handlirsch, 1889b:473. – Wesmael, 1839:79 (unknown to author); Lepeletier de Saint Fargeau, 1845:71 (in revision of world Hymenoptera); Acloque, 1897:83 (in Sphecid Fauna of France and Algeria). – As *Gorytes albilabris*: F. Smith, 1856:362 (new combination, in catalog of Hymenoptera in British Museum); Leininger, 1953:18 (Germany: Baden-Württemberg: Neuenburg); de Beaumont, 1959a:21 (Italy: Lazio: Roma: Acilia). – As *Hoplisus albilabris*: Dours, 1874:150 (new combination, in catalog of Hymenoptera of France); Blüthgen, 1949:89 (as valid name for *Hoplisus dissectus*).

Gorytes elegans F. Smith, 1856:362, ♀, junior primary homonym of *Gorytes elegans* Lepeletier de Saint Fargeau, 1832. Holotype or syntypes: ♀, Albania: no specific locality (BMNH or OXUM). Synonymized with *Gorytes dissectus* by Handlirsch, 1888b:473, synonymy (with *Gorytes albidulus*) confirmed by de Beaumont, 1953f:173. – As *Hoplisus elegans*: Kirchner, 1867:220 (new combination, in catalog of European Hymenoptera).

6. *albosignatus* W. Fox

Gorytes albosignatus W. Fox, 1892:152, ♀, ♂. Lectotype: ♀, USA: Montana: no specific locality (ANSP), designated by Cresson, 1928:47. – W. Fox, 1896a:533 (in revision of North American *Gorytes*); Dalla Torre, 1897:536 (in catalog of world Sphecidae); Washburn, 1919:216 (in list of Hymenoptera of Minnesota); Brimley, 1938:446 (North Carolina: Marston, may be in error); Maidl and Klima, 1939:100 (in catalog of world Astatinae and Bembicinae); Strickland, 1947:126 (Canada: Alberta: Edmonton, Medicine Hat); Krombein in Muesebeck, Krombein, and Townes, 1951:991 (in catalog of North American Hymenoptera); Evans, 1970:494 (Wyoming: Jackson Hole); Horning and Barr, 1970:105 (USA: Idaho: Craters of the Moon National Monument); Steiner, 1973:27 (Canada: Northwest Territories); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1693 (in catalog of North American Hymenoptera); Ahlstrom, 1995:112 (in checklist of insects of North Carolina); Finnimore, 1997:894 (expected to occur in Yukon). – As *Hoplisus albosignatus*: Ashmead, 1899d:328 (new combination, in checklist of North American Crabronidae); H. Smith, 1908b:347 (in revision of Nebraskan Sphecidae); Stevens, 1917:421 (North Dakota); Mickel, 1918b:355 (in catalog of Nebraskan Sphecidae).

7. *ambiguus* Handlirsch

Gorytes ambiguus Handlirsch, 1888b:476, ♀. Holotype: ♀, Russia: Altai Mountains: Mimsh (Kraków). – Handlirsch, 1895:915 (description of ♂); Dalla Torre, 1897:536 (in catalog of world Sphecidae); Maidl and Klima, 1939:66 (in catalog of world Astatinae and Bembicinae); Tsuneki, 1971k:187 (Mongolia); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Nemkov, 1986:107 (Russia: Siberia: Irkutsk Oblast'), 1989:67, 71 (in key to *Gorytes* of Siberia and Russian Far East; Tajikistan to Khabarovsk Kray, and Mongolia), 1990b:681, 685 (in key to *Gorytes* of USSR), 1995a:2 (synonymy); Nemkov in Nemkov, Kazenas, Budrys, et Antropov, 1995:461, 464 (in key to Sphecidae of Russian Far East); Esenbekova and Kazenas, 2000:60 (southeastern Kazakhstan: 1 km south of Alma Ata); Kazenas, 2001b:46 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:120 (geographic distribution, collecting localities in Kazakhstan); Hua, 2006:280 (in list of Chinese insects, geographic distribution); Nemkov, 2008b:24 (in catalog of Crabronidae of Asiatic Russia), 2009b:135 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); Baghirov, 2011b:141 (Russia: recorded from Altay by Nemkov in Nemkov, Kazenas, Budrys, and Antropov, 1995); Nemkov, 2012c:446 (in catalog of Crabronidae of Russian Far East), 2017a:Table p. 5 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:222 (in catalog of Bembicinae of Russia); Jacobs and Liebig, 2018:142 (Russia: Irkutsk Oblast': Bol'shoye Goloustnoye); Mokrousov and Proshchalykin, 2021b:175, 177 (in key to Palaearctic *Gorytes*).

Gorytes sogdianus Gussakovskij, 1952:269, ♀. Lectotype: ♀, Uzbekistan: Katta-Kurgan (ZIN), designated by Nemkov, 1989:71. Synonymized with *Gorytes ambiguus* by Nemkov, 1989:71 and 1990b:681 (as new synonym). – R. Bohart and Menke, 1976:502 (in checklist of world Sphecidae).

Gorytes verhoeffi Tsuneki, 1967e:3, ♂, ♀. Holotype: ♂, China: Heilongjiang: Harbin (RMNH). Synonymized with *Gorytes ambiguus* by Nemkov, 1989:71 and 1990b:681 (as new synonym). – R. Bohart and Menke, 1976:502 (in checklist of world Sphecidae).

Gorytes heptapotamiensis Kazenas, 1972b:149, ♀. Holotype: ♀, Kazakhstan: Alma-Ata Oblast' (ZIN). Synonymized with *Gorytes ambiguus* by Nemkov, 1989:71 and 1990b:681 (as new synonym). – R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae).

Gorytes zaysanicus Kazenas, 1987a:1899, ♀. Holotype: ♀, Kazakhstan: Zaisan Valley 15 km S Aksaut (ZIN). Synonymized with *Gorytes ambiguus* by Nemkov, 1989:71 and 1990b:681 (as new synonym).

Gorytes nobilis Nesterov, 1993:54, ♀. Holotype: ♀, Kazakhstan: Aktyubinsk Oblast': Emba at Emba River in Mugodjary Mountains (Zool. Inst. Ukrain. Acad. Sci. Kiev). Synonymized with *Gorytes ambiguus* by Nemkov, 1995a:2.

8. *angustus* (Provancher)

Hoplisus angustus Provancher, 1895:141, ♀. Lectotype, ♂ [sic], USA: California: Los Angeles (Laval Univ.), designated by Gahan and Rohwer, 1917:429. – Ashmead, 1899d:328 (in checklist of North American Crabronidae, as *angustatus*). – As *Gorytes angustus*: W. Fox, 1896a:537 (new combination, in revision of North American *Gorytes*); Bradley, 1920:114 (California; variation, as *angustatus*); Maidl and Klima, 1939:100 (in catalog of world Astatinae and Bembicinae); Krombein in Muesebeck, Krombein, and Townes, 1951:991 (in catalog of North American Hymenoptera); Horning and Barr, 1970:105 (Idaho: Craters of the Moon National Monument); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae), 628 (Ashmead's misspelling recorded); Krombein, 1979b:1693 (in catalog of North American Hymenoptera); Rust, Menke, and Miller, 1985:47 (California: Channel Islands); Ratzlaff, 2016:24 (Canada: British Columbia: after Krombein, 1979).

9. *atricornis* Packard

Odynerus atricornis Harris, 1835:68, nomen nudum.

Gorytes atricornis Packard, 1867:428, ♂, ♀. Lectotype: ♀, USA: Massachusetts: no specific locality (ANSP), designated by Cresson, 1928:47. – Provancher, 1883b:638 (in revision of Canadian Hymenoptera); Handlirsch, 1888b:479 (in revision of world Bembicinae), 1895:918 (reference to Provancher, 1889); W. Fox, 1896a:534 (in revision of North American *Gorytes*); Dalla Torre, 1897:537 (in catalog of world Sphecidae); J.Ch. Bradley, 1928:1015 (in catalog of New York Sphecidae); Maidl and Klima, 1939:101 (in catalog of world Astatinae and Bembicinae); Krombein, 1936:98 (New York: Buffalo; floral records); Pate, 1946h:99 (prey: *Cyrtolobus tuberosus* (Fairmaire), a membracid); Krombein in Muesebeck, Krombein, and Townes, 1951:991 (in catalog of North American Hymenoptera); Evans, 1966d:67 (prey); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1679 (in catalog of North American Hymenoptera, list of prey); Finnimore, 1982:218 (in Sphecid Fauna of Southern Quebec); Radović, 1985:65 (sting apparatus analyzed); Buck, 2004:27 (in checklist of Crabronidae of Ontario, Canada); Evans and O'Neil, 2007:45 (prey of *Philanthus sanbornii*); Ardila-Garcia, Umphrey, and Gregory, 2010:339 (genome size dataset); Nemkov, 2012b:120 (review of known prey). – As *Hoplisus atricornis*: Cresson, 1887:279 (new combination, in catalog of North American Hymenoptera); Ashmead, 1890:32 (in checklist of Hymenoptera of Colorado), 1899:328 (in checklist of North American Crabronidae); Rohwer, 1916b:656, 657 (in catalog of Hymenoptera of Connecticut); Rohwer in Viereck, 1925:656 (in key to Sphecidae of Connecticut; not yet found there); Ratzlaff, 2016:24 (Canada: British Columbia: after Krombein, 1979 and Buck, 2004).

Gorytes rugosus Packard, 1867:427, ♂. Holotype or syntypes: ♂, USA: Illinois: no specific locality (depository?). Synonymized with *Gorytes atricornis* by Krombein in Muesebeck, Krombein, and Townes, 1951:991. – Handlirsch, 1888b:412 (original description translated into German); W. Fox, 1896a:530 (in revision of North American *Gorytes*); Dalla Torre, 1897:554 (in catalog of world Sphecidae); Maidl and Klima, 1939:92 (in catalog of world Astatinae and Bembicinae). – As *Hoplisoides rugosus*: Ashmead, 1899d:328 (new combination, in checklist of North American Crabronidae).

Gorytes decorus W. Fox, 1896a:535, ♀, ♂. Lectotype: ♀, USA: Montana: no specific locality (ANSP), designated by Cresson, 1928:47. Synonymized with *Gorytes atricornis* by R. Bohart in R. Bohart and Menke, 1976:501. – Maidl and Klima, 1939:101 (in catalog of world Astatinae and Bembicinae); Strickland, 1947:126 (Canada: Alberta: Edmonton); Krombein in Muesebeck, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera).

– As *Hoplisus decorus*: Ashmead, 1899d:328 (new combination, in checklist of North American Crabronidae).

Hoplisus elegantulus H. Smith, 1908:346, ♂. Holotype: ♂, USA: Nebraska: Sioux County: Glen (UNL). Synonymized with *Gorytes atricornis* by Krombein, 1958f:194. – Mickel, 1918b:355 (in catalog of Nebraskan Sphecidae); Carter, 1925:131 (Canada: Alberta: Edmonton); Strickland, 1947:127 (Canada: Alberta); Muma, 1952:19 (holotype in UNL). – As *Gorytes elegantulus*: Maidl and Klima, 1939:101 (new combination, in catalog of world Astatinae and Bembicinae); Krombein in Muesebeck, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera).

As *Hoplisus canaliculatus* Harrington, 1902:223 (Canada: Ontario: Ottawa), corrected to *Gorytes atricornis* by Buck, 2004:76.

10. *atrifrons* W. Fox

Gorytes atrifrons W. Fox, 1892:151, ♀, ♂. Lectotype: ♀, USA: Nevada: no specific locality (ANSP), designated by Cresson, 1928:47. – Handlirsch, 1895:919 (original description translated into German); W. Fox, 1896a:533 (Nevada); Dalla Torre, 1897:537 (in catalog of world Sphecidae); Maidl and Klima, 1939:101 (in catalog of world Astatinae and Bembicinae); Krombein in Muesebeck, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1693 (in catalog of North American Hymenoptera). – As *Hoplisus atrifrons*: Ashmead, 1899d:328 (new combination, in checklist of North American Crabronidae); Rohwer, 1917a:248 (California: Tahoe); Stevens, 1917:421 (North Dakota).

11. *butleri* (R. Bohart)

Pseudoplisis butleri R. Bohart, 1969b:397, ♂. Holotype: ♂, USA: Arizona: 25 mi east of Pearce (UCD). – R. Bohart, 1969b:394 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1695 (in catalog of North American Hymenoptera). – As *Gorytes butleri*: Nemkov and Pulawski, 2009:7 (new combination, in cladistic analysis of Gorytina).

12. *californicus* (R. Bohart)

Pseudoplisis californicus R. Bohart, 1969b:401, ♀, ♂. Holotype: ♂, USA: California: Santa Barbara County: Santa Ynez Mountains (UCD). – R. Bohart, 1969b:393 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1695 (in catalog of North American Hymenoptera); Parks, 1986:35 (Torrey Pines State Reserve); Hook, 1998:252 (first record from Texas: Val Verde County: Dolan Falls Preserve); Ruiz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae). – As *Gorytes californicus*: Nemkov and Pulawski, 2009:7 (new combination, in cladistic analysis of Gorytina).

13. *canaliculatus* Packard

Gorytes canaliculatus Packard, 1867:428, ♀. Lectotype: ♀, Canada: no specific locality (ANSP), designated by Cresson, 1928:47. – Handlirsch, 1888b:480 (original description translated into German); W. Fox, 1896a:534 (in revision of North American *Gorytes*); Dalla Torre, 1897:539 (in catalog of world Sphecidae); Barth, 1907a:141 (nesting habits, prey); Washburn, 1919:216 (in list of Hymenoptera of Minnesota); J.Ch. Bradley, 1928:1015 (in catalog of New York Sphecidae); Maidl and Klima, 1939:101 (in catalog of world Astatinae and Bembicinae); Krombein in Muesebeck, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera); Evans and Lin, 1956b:43 (description of larva); Krombein, 1958f:194 (in supplement to catalog of North American Hymenoptera: description of larva by Evans and Lin, 1956b reported), 1963f:277 (Maryland: Plummers Island near Washington, D.C.); Kurczewski and Kurczewski, 1963:147 (Pennsylvania: Presque Isle State Park); Krombein, 1964b:119 (nest and prey);

Evans, 1966d:58 (nesting behavior); Kurczewski and Kurczewski, 1971b:335 (prey record); Powell, 1974:1 (nesting behavior, description of larva); Evans, 1975a:263 (slow colonizer of new habitats); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1693 (in catalog of North American Hymenoptera, nesting sites, list of prey); Finnimore, 1982:219 (in Sphecid Fauna of southern Quebec); Piek and Spanjer, 1986:184 (in list of Sphecidae with known prey, as *caniculatus*); Steiner, 1986:109 (references to publications on nesting habits); Spofford, Kurczewski, and Downes, 1989:256, 257, 259, 260 (references to publications on nest parasites *Metopia argyrocephala* (Meigen), *Phrosinella fumosa* Allen, *Senotainia trilineata* (Wulp), miltogrammiae flies), and undetermined Miltogrammmini) 257, 260 (nest parasites: *Phrosinella aurifacies* Downes, *Senotainia vigilans* Allen, miltogrammiae flies); Spofford and Kurczewski, 1990:746, 748, 749, 751 (nest parasites: *Phrosinella aurifacies* Downes, *Senotainia trilineata* (Van der Wulp), *Senotainia vigilans* Allen, and unknown species of Miltogrammmini, Sarcophagidae), 1992:999 (species of miltogrammiae parasites listed), 1002 (counter cleptoparasitic behavior: diversionary flight), 1005 (post-larvipositional counter-cleptoparasitic behavior: abandon prey); Kurczewski, 1998d:250 (pine barrens in upstate New York); Weissmann and Kondratieff, 1999:78 (Colorado: Great Sand Dunes National Monument); Buck, 2004:27 (Canada: in checklist of Crabronidae of Ontario); Evans and O'Neil, 2007:54 (summary of information on nesting habits); Ratzlaff, 2016:24 (Canada: British Columbia: after Krombein, 1979 and Buck, 2004). – **As *Hoplisus canaliculatus*:** Cresson, 1887:279 (new combination, in catalog of North American Hymenoptera); Ashmead, 1899d:328 (in checklist of North American Crabronidae); nec Harrington, 1902:223 (= *Gorytes atricornis*).

Gorytes geminus Handlirsch, 1888b:478, ♀, ♂. Syntypes: North America (♀): no specific locality (NHMW); and USA: Virginia: no specific locality (depository not stated). Synonymized with *Gorytes canaliculatus* by R. Bohart in R. Bohart and Menke, 1976:501. – W. Fox, 1896a:534 (in revision of North American *Gorytes*); Dalla Torre, 1897:542 (in catalog of world Sphecidae); Maidl and Klima, 1939:102 (in catalog of world Astatinae and Bembicinae); Krombein in Muesebeck, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera); Dollfuss, 1989:9 (type material in NHMW). – **As *Hoplisus geminus*:** Ashmead, 1899d:328 (new combination, in checklist of North American Crabronidae).

Gorytes asperatus W. Fox, 1896a:534, ♀, ♂. Lectotype: ♀, USA: southern California: no specific locality (ANSP), designated by Cresson, 1928:47. Synonymized with *Gorytes canaliculatus* by R. Bohart in R. Bohart and Menke, 1976:501. – Maidl and Klima, 1939:89 (in catalog of world Astatinae and Bembicinae, in subgenus *Hoplisoides*); Strickland, 1947:126 (Canada: Alberta: Wainwright); Krombein in Muesebeck, Krombein, and Townes, 1951:991 (in catalog of North American Hymenoptera); Krombein, 1953a:335 (North Carolina: Kill Devil Hills); Evans and Lin, 1956b:44 (description of larva); Alcock, 1974a:332 (nesting behavior); L. Davis, 1978:217 (North Carolina: Kill Devil Hills, data from Krombein, 1953a). – **As *Hoplisoides asperatus*:** Ashmead, 1899d:328 (new combination, in checklist of North American Crabronidae). – **As *Hoplisus asperatus*:** Mickel, 1918b:355 (new combination, in catalog of Nebraskan Sphecidae). – **As *Gorytes canaliculatus asperatus*:** Evans, 1970:494 (new status, Wyoming: Jackson Hole, nest, prey).

Hoplisus corrugis Mickel, 1918a:319, ♂. Holotype: ♂, USA: Nebraska: Mitchell (UNL). Synonymized with *Gorytes asperatus* by Krombein, 1958f:194 and with *Gorytes canaliculatus* by R. Bohart and Menke, 1976:501. – Mickel, 1918b:356 (in catalog of Nebraskan Sphecidae); Maidl and Klima, 1939:101 (in catalog of world Astatinae and Bembicinae, as *carrugis*); Muma, 1952:19 (holotype in UNL); Krombein in Muesebeck, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera).

14. *catalinae* (R. Bohart)

Pseudoplisis catalinae R. Bohart, 1969b:395, ♀, ♂. Holotype: ♂, USA: Arizona: Pima County: Molino Basin in Santa Catalina Mountains (UCD). – R. Bohart, 1969b:392 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1695 (in catalog of North American Hymenoptera). – **As *Gorytes catalinae*:** Nemkov and Pulawski, 2009:7 (new combination, in cladistic analysis of Gorytina).

15. *claripennis* (R. Bohart)

Pseudoplisis claripennis R. Bohart, 1969b:403, ♂. Holotype: ♂, USA: Arizona: Madera Canyon in Santa Rita Mountains (UCD). – R. Bohart, 1969b:393 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1695 (in catalog of North American Hymenoptera). – As *Gorytes claripennis*: Nemkov and Pulawski, 2009:7 (new combination, in cladistic analysis of Gorytina).

16. *cochisensis* R. Bohart

Gorytes cochisensis R. Bohart, 1971:450, ♀, ♂. Holotype: ♀, USA: Arizona: Cochise County: 9 mi west of Portal (UCD). – R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1694 (in catalog of North American Hymenoptera).

17. *deceptor* Krombein

Gorytes deceptor Krombein, 1958a:62, ♀, ♂. Holotype: ♀, USA: West Virginia: Lost River State Park (USNM). – Krombein, 1958a:52 (USA: West Virginia: Lost River State Park); Evans, 1966d:67 (preying on Membracidae); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1694 (in catalog of North American Hymenoptera, prey); Finnimore, 1982:219 (in Sphecid Fauna of southern Quebec); Hook, 1998:252 (first records from Texas); Buck, 2004:27 (Canada: in checklist of Crabronidae of Ontario,); Giles and Ascher, 2006:231 (New York: Black Rock Forest Preserve); Deyrup and Eisner, 2003:522 (Floridian populations are red-marked).

18. *divisus* F. Smith

Gorytes divisus F. Smith, 1856:370, ♂. Holotype or syntypes: ♂, USA: Georgia: no specific locality (BMNH). – Cresson, 1862:235 (in catalog of North American Hymenoptera); Packard, 1867:432 (in revision of North American aculeates); Cresson, 1887:279 (in catalog of North American Hymenoptera); Handlirsch, 1888b:508 (original description translated into German); W. Fox, 1896a:538 (in revision of North American *Gorytes*); Dalla Torre, 1897:541 (in catalog of world Sphecidae); Maidl and Klima, 1939:111 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisis*); Krombein in Muesebeck, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera); Nemkov and Pulawski, 2009:9 (reverted to *Gorytes*, in cladistic analysis of Gorytina). – As *Pseudoplisis divisus*: Ashmead, 1899:328 (new combination, in checklist of North American Crabronidae); R. Bohart, 1969b:394 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Ahlstrom, 1995:112 (in checklist of insects of North Carolina); Krombein, 1979b:1695 (in catalog of North American Hymenoptera); Deyrup and Eisner, 2003:522 (a Floridian, red-marked species).

Gorytes bipartitus Handlirsch, 1888:521, ♀, ♂. Syntypes: USA: Georgia: no specific locality (coll. de Saussure, Geneva). Synonymized with *Gorytes divisus* by Krombein, 1958f:194 and with *Pseudoplisis divisus* by R. Bohart in R. Bohart and Menke, 1976:503. – W. Fox, 1896a:538 (in revision of North American *Gorytes*); Dalla Torre, 1897:538 (in catalog of world Sphecidae); Brimley, 1938:446 (North Carolina: Kingsboro, Raleigh); Maidl and Klima, 1939:111 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisis*); Krombein in Muesebeck, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera). – As *Pseudoplisis bipartitus*: Ashmead, 1899:328 (new combination, in checklist of North American Crabronidae); Mickel, 1918b:357 (in catalog of Nebraskan Sphecidae).

Pseudoplisis varipunctus H. Smith, 1908b:348, ♀. Holotype: ♀, USA: Nebraska: West Point (UNL). Synonymized with *Pseudoplisis bipartitus* by Krombein in Muesebeck, Krombein, and Townes, 1951:992 and with *Gorytes divisus* by R. Bohart in R. Bohart and Menke, 1976:503 (as new synonym). – Mickel, 1918b:357 (in catalog of Nebraskan Sphecidae); Muma, 1952:22 (type in UNL), 28 (paratypes in UNL). – As *Gorytes varipunctus*: Maidl and Klima, 1939:114 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisis*).

19. *dorothyae* Krombein

Gorytes dorothyae Krombein, 1950a:269, ♂. Holotype: ♂, USA: North Carolina: Dare County: Kill Devil Hill (USNM). – Wray, 1950:38 (North Carolina: Kill Devil Hills); Krombein in Muesebeck, Krombein, and Townes, 1951:992 (in

catalog of North American Hymenoptera); Krombein, 1953a:335 (North Carolina: Kill Devil Hills), 1958f:194 (in supplement to catalog of North American Hymenoptera: is *Gorytes dorothyae dorothyae* now); Wray, 1967:124 (North Carolina: Kill Devils Hills); L. Davis, 1978:217 (North Carolina: Kill Devil Hills, data from Krombein, 1953a); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1694 (in catalog of North American Hymenoptera); Ahlstrom, 1995:112 (in checklist of insects of North Carolina); Hook, 1998:252 (first record from Texas: Bastrop County: Sayersville).

ssp. *russeolus* Krombein

Gorytes dorothyae russeolus Krombein, 1954b:23, ♀, ♂. Holotype: ♂, USA: Florida: Marion County: Juniper Springs (USNM). – Krombein and Evans, 1954:234 (Florida); Krombein, 1958f:194 (recorded in supplement to catalog of North American Hymenoptera); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1694 (in catalog of North American Hymenoptera); Deyrup and Eisner, 2003:522 (a Floridian, red-marked subspecies).

20. *effugiens* Brauns

Gorytes effugiens Brauns, 1911b:133, ♀. Holotype: ♀, South Africa: KwaZulu-Natal: Port Natal, now Durban (TMP). – Maidl and Klima, 1939:54 (in catalog of world Astatinae and Bembicinae); Nemkov and Pulawski, 2009:9 (reverted to *Gorytes*, in cladistic analysis of Gorytina). – As *Arpactus effugiens*: Arnold, 1929a:234 (new combination, in revision of Southern African Sphecidae), 1930:18 (in checklist of Afrotropical Sphecidae). – As *Pseudoplisis effugiens*: R. Bohart and Menke, 1976:503 (new combination, in checklist of world Sphecidae).

Arpactus fugax R. Turner, 1915d:289, ♀. Holotype or syntypes: ♀, Kenya: Makindu (BMNH). Synonymized with *Gorytes effugiens* by Arnold, 1929a:234. – Maidl and Klima, 1939:54 (in catalog of world Astatinae and Bembicinae).

21. *erugatus* (R. Bohart)

Pseudoplisis erugatus R. Bohart, 1969b:404, ♀, ♂. Holotype: ♂, USA: Mexico: Baja California Sur: Las Animas in Sierra Laguna (CAS). – R. Bohart, 1969b:393 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae). – As *Gorytes erugatus*: Nemkov and Pulawski, 2009:9 (new combination, in cladistic analysis of Gorytina).

22. *fallax* Handlirsch

Gorytes fallax Handlirsch, 1888b:489, ♀, ♂. Syntypes: Austria: Wien; Switzerland and Russia (Daghestan): no specific localities (Kraków, NHMW). – Kohl, 1888b:72 (Austria: Tirol, now Italy: Alto Adige), 1893a:27 (Austria: Niederösterreich: Wien: Türkenschanze); Sickmann, 1893:89 (Germany: Niedersachsen: Iburg); Handlirsch, 1895:921 (reference to Radoszkowski, 1891; Germany: Iburg; Sütirol, now Italy: Alto Adige); Dalla Torre, 1897:541 (in catalog of world Sphecidae); Antiga and Bofill, 1904:16 (Spain: Cataluña Province); W. Schulz, 1904b:97 (Switzerland: Wallis); Schmiedeknecht, 1907:219, 222 (in key to Hymenoptera of Central Europe); Zilahi Kiss, 1915:80 (Hungary: Boksánbánya); O. Meyer, 1919:153 (Germany: Posen Province, now Poland: Poznań Region); Bouwman, 1927:55 (Netherlands: Dieren, redescription); Schmiedeknecht, 1930:681, 684 (in key to Hymenoptera of North and Central Europe); Bischoff, 1931:9 (Spain); Pulkkinen, 1931:63 (in revision of Sphecidae of Finland, not yet found in Finland); Zavadil, Šuster, and Bat'a, 1937:191 (in catalog of Sphecidae of Czechoslovakia); van Lith, 1938:122 (Netherlands: Limburg: Exaeten); Maidl and Klima, 1939:94 (in catalog of world Astatinae and Bembicinae); Teunissen, 1939:174 (Netherlands: Haaren); Benno, 1940a:205 (Netherlands: Vlijmen); Paul, 1941:44 (Germany: Pommern: Rummelsberg, now Poland: Województwo Zachodniopomorskie: Miastko); van Lith, 1947:106 (Netherlands); Balthasar, 1948:142 (Slovakia: Parkan); Šnoflák in Zavadil and Šnoflák, 1948:70, 72 (in key to Sphecidae of Czechoslovakia); Aerts, 1950a:51 (Germany: Nordrhein-Westfalen: Rheinster Wertchens near Köln); Benno, 1951a:273 (Netherlands: Helenaveen); Leininger, 1951:117 (Germany: Baden-Württemberg:

Jöhlingen, Tauberbischofsheim); Scobiola-Palade, 1951:273 (first record from Romania: Bucureşti: Botanical Garden); de Beaumont, 1953f:190 (in revision of western Palearctic *Gorytes*); Móczár, 1953:310 (Hungary); Aerts, 1955:62 (Germany: Rheinland); Hellén, 1955a:127 (Finland: Lutto, Paanajärvi); Steiner, 1955:145 (France: Dordogne); Vogrin, 1955:35 (Yugoslavia); Ceballos, 1956:382 (in catalog of Hymenoptera of Spain); Bajári, 1957a:108, 110 (in key to Hungarian Sphecidae); Zirngiebl, 1957:181 (Germany: Rheinland-Pfalz: Birkenheide, Dürkheimer Bruch); Benno, 1958b:11 (in review of Dutch Sphecidae); Ceballos, 1959:229 (in supplement to catalog of Spanish Sphecidae); Wolf, 1959b:30 (known from Germany, but not from Nassau); Noskiewicz and Puławski, 1960:93, 94 (in key to Polish Sphecidae); Babiy, 1964:117 (Austria: Land Salzburg); de Beaumont, 1964c:49 (in Sphecid Fauna of Switzerland); Benno, 1967:34 (in checklist of Sphecidae of Netherlands); Niedl and Deneš, 1967:82 (Czech Republic: Třeboň area); Scobiola-Palade, 1967b:48 (Romania); Benedek, 1968:72 (Hungary, visiting flowers of *Pastinaca sativa* L., Apiaceae); Scobiola-Palade, 1968c:384 (Romania: Bucureşti); Benedek, 1969a:83 (Hungary; marshy meadow); Romanova, 1969:134 (Russia: North Caucasus); Schmidt, 1969:162 (Germany: Rhein-Main area: Worms); Benedek, 1970:97 (Hungary: Tapolca); Oehlke, 1970:688 (first record from Democratic Germany); Schmidt, 1971b:27 (Germany: Rheinland-Pfalz: Gonsenheimer Wald); Balthasar, 1972:310 (in Sphecid Fauna of Czechoslovakia); Kofler, 1972:106 (Austria: eastern Tirol); Niedl and Deneš, 1972:153 (Czechoslovakia); Scobiola-Palade, 1972b:252 (Romania); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Eck, 1976:90 (Democratic Germany); Kolesnikov, 1977:317 (Russia: Bryansk Oblast'); Schmidt, 1977/78:55 (Germany: Rheinland-Pfalz: Gonsenheimer Wald); Guichard, 1978:270 (Greece); Kazenas, 1978b:75, 77 (in key to Sphecidae of Kazakhstan and Central Asia); Pulawski, 1978:203 (in key to Sphecidae of European part of USSR); Benedek, 1979:230 (Hungary: Bakony Mountains); Lefeber, 1979:11 (in checklist of Sphecidae of Netherlands), 38 (Netherlands: distribution map); Schmidt, 1979b:347 (Germany: Baden-Württemberg); Dollfuss and Ressl, 1981:324 (Austria: Niederösterreich: Scheibbs District); Dollfuss, 1983a:77 (Austria: endangered in Niederösterreich), 78 (Austria: endangered in Burgenland), 78 (Austria endangered in Oberösterreich), 79 (Austria: endangered in Land Salzburg and Kärnten), 80 (Austria: endangered in Steiermark), 80 (Austria: endangered in Tirol), 1983b:22 (in catalog of Sphecidae of Austria); Chevin and Silvestre de Sacy, 1984:9 (France: Yvelines Department); Józan, 1985b:61 (Hungary south of Lake Balaton), 81 (floral records), 84 (ecological and zoogeographic characteristics); Lefeber, 1985:87 (Netherlands: southern Limburg); Westrich and Schmidt, 1985b:111 (Germany: endangered in Baden-Württemberg); Brechtel, 1986:59 (Germany: Südpfalz); Nemkov, 1986:107 (Russia: Siberia: Irkutsk Oblast'); Schmidt and Westrich, 1987:359 (Germany: Mainz area); Kowalczyk, 1988b:64 (Poland: environs of Łódź); Nemkov, 1989:69 (in key to *Gorytes* of Siberia and Russian Far East); Dollfuss, 1989:9 (holotype in NHMW); Pádr in Šedivý, 1989a:167 (in checklist of Czechoslovakian Sphecidae); Jacobs and Oehlke, 1990:211 (new records from Democratic Germany); Nemkov, 1990b:683 (in key to *Gorytes* of USSR); Schwammberger and Priesner, 1990:552 (Austria: Kärnten); Day, 1991:xv (summary of European Endangered Hymenoptera Lists); Dollfuss, 1991:199 (in key to Sphecidae of North and Central Europe); Józan, 1991:604 (Hungary: Bátorliget Nature Reserve); Kowalczyk, 1991a:100, 101, 105 (Poland: Łódź), 1991b:120 (Poland: Augustów Forest); Józan, 1992b:175 (Hungary: Boronka-melléki Protected Area), 1992c:290 (Hungary: Zselic Hills); K. Weber, 1992:87 (Germany: Bayern: Bamberg District); van der Smissen, 1993:128 (northwestern Germany); Dollfuss, 1994:100 (endangered in Austria); Kowalczyk, 1994:73 (Poland: Łagiewniki forest in Łódź); Schmid-Egger, 1994b:17 (Germany: conservation in upper Rhein area); Jansen and Kaluza, 1995:7 (Germany: endangered in Sachsen); Józan, 1995:105 (Hungary: projected Duná-Dráva National Park); Nemkov in Nemkov, Kazenas, Budrys, et Antropov, 1995:463 (in key to Sphecidae of Russian Far East); Schmid-Egger, Risch, and Niehuis, 1995:185 (Germany: summary of records from Rheinland-Pfalz); Arens, 1996:442 (Germany: Bayern: Bayreuth area); Jakubzik, 1996:252 (Germany: Köln); Schmid-Egger, Schmidt, and Doczkal, 1996:377 (Germany: Baden-Württemberg: probably endangered); Tischendorf, 1996:46 (Germany: Hessen: near Bensheim); Voblenko, Gorobchishin, and Nesterov, 1996:15 (Ukraine: Polesye Region); Witt, 1996:106 (Germany: Brandenburg), 108 (locality records); Wu and Zhou, 1996a:144 (in revision in Economic

Insect Fauna of China); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:192 (in Sphecid Fauna of Western Europe); Celary, 1997:60 (in checklist of Animals of Poland); Lauterbach, 1997c:83 (Germany: Nordrhein-Westfalen: Bielefeld); Schmidt and Schmid-Egger, 1997:15 (in checklist of German Sphecidae); F. Burger, Saure, and Oehlke, 1998:28 (Germany: in list of Sphecidae of Brandenburg); Dollfuss, Gusenleitner, and Bregant, 1998:522 (Austria: summary of collecting records from Burgenland); Drewes, 1998:49 (Germany: Niedersachsen: Goldbeck 26 km west-southwest of Hamburg); Józan, 1998:312 (Hungary: Duna-Dráva National Park); Gorobchishin, 1998a:50 (Ukraine: Kiev and surroundings); Lefeber, 1998:182 (Netherlands: Limburg: Sint-Pietersberg near Maastricht at 50°50'N 5°41'E); van der Smissen, 1998:60 (Germany: Schleswig-Holstein: Büchen, Wulfsdorfer Heide); K. Weber, 1998:140 (Germany: Bayern: Bamberg area); W. Klein, 1999:23 (in improved key to male *Gorytes* of Benelux); Neumayer, Schwarz, and Bregant, 1999:224 (Austria: in checklist of Sphecidae of Land Kärnten); Pauly, 1999:111 (in catalog of Belgian aculeates); M. Schwarz, 1999:88 (Austria: Oberösterreich: city of Linz area); Blösch, 2000:380 (in Sphecid Fauna of Germany); Jacobs, 2000:7, 16 (Germany: Land Mecklenburg-Vorpommern: close to extinction); Józan, 2000:113 (Hungary: Bakony Mountains); Schmid-Egger, 2000b:275 (Germany: Baden-Württemberg: shores of Rhine River); Zettel, 2000:31 (Austria: Wien); Józan, 2001:281 (Hungary: Somogy County); Kazenas, 2001b:46 (in checklist of Sphecidae of Kazakhstan and Central Asia); Ohl et al., 2001:139 (distribution in Germany by provinces); van der Smissen, 2001:61 (Germany: Schleswig-Holstein: to be treated as endangered); Zettel, Gross, and Mazzucco, 2001:80 (Austria: Wien); Józan, 2002:54 (Hungary: Mecsek Mountains); Kazenas, 2002a:120 (geographic distribution, collecting localities in Kazakhstan); Kowalczyk, Szczepko, and Świątek, 2002:155 (Poland: Kampinos National Park near Warszawa); Schmid-Egger, 2002b:176 (in revision of western Palearctic *Gorytes*); Wiśniowski, 2002:73 (Poland: Ojców National Park); Józan, 2003:228 (Hungary: Látrányi Puszta Nature Conservation Area); Kowalczyk and Kurzac, 2003:209 (Poland: Łódź: Botanical Garden); Mandery, Kraus, Voith, Wickl, Scheuchl, Schubert, and Warncke, 2003:66 (Germany: in catalog of wasps and bees of Bayern); von der Heide and Metscher, 2003:102 (Germany: Niedersachsen: Emsland area); Wickl, Voith, Mandery, Weber, Kraus, Bausenwein, and Blösch, 2003:196 (Germany: Bayern: strongly endangered); Wiśniowski *in* Dylewska and Wiśniowski, 2003:177 (Poland: Ojców National Park); Deván, 2004:147 (western Slovakia); Esser, Jakubzik, Sonnenburg, and Woydak, 2004:262 (Germany: in checklist of Sphecidae of Nordrhein-Westfalen); Klein and Lefeber *in* Peeters, van Achterberg, et al., 2004:386 (in Wasp and Ant Fauna of Netherlands); Skibińska *in* Bogdanowicz, Chudzicka, Pilipiuk, and Skibińska, 2004:355 (in catalog of Polish Crabronidae); Stolle et al., 2004:371 (Germany: Sachsen-Anhalt: last collected before 1942); van Achterberg and Peeters, 2004:32 (in checklist of Sphecidae of Netherlands); Wiśniowski, 2004:51 and 62 (in checklist of Polish Sphecidae); Burger, 2005:33 (Germany: Thüringen); Kofler, 2005:184 (Austria: Tirol: Lienz District: shores of Drau in Anras Common); Kowalczyk and Kurzac, 2005:105 (Poland: Botanical Garden in Łódź); Saure, 2005:15 (Germany: Berlin); Straka, 2005a:400 (endangered in Czech Republic); Theunert, 2005a:17 (Germany: in checklist of Sphecidae of Niedersachsen and Bremen); Venne and Bleidorn, 2005:43 (Germany: Nordrhein-Westfalen: Moosheide Nature Reserve); Wiśniowski, 2005b:340 (Poland: Ojców National Park, of secondary faunistic value); Gadoum and Barbier, 2006:43 (France: départements of Val-d'Oise and Yvelines: Parc Naturel Régional du Vexin Français: Frouville); Gorobchishin, 2006:139 (Ukraine: Kyiv Oblast': Kyiv, village Svityl'ne); Hua, 2006:280 (in list of Chinese insects, geographic distribution); Vepřek, 2006:510 (Czech Republic: Kokořínsko area); Dvořák, Straka, Smetana, Halada, Vepřek, and Karas, 2007:168 (Czech Republic: Vyšenské Kopce National Nature Reserve); Jacobs, 2007:174, 176, 178 (in key to Crabronidae of Germany); Jansen and Kaluza, 2007:24 (Germany: northwestern Sachsen); Józan, 2007:180 (Hungary: Zselic hills); Kowalczyk and Nadolski, 2007:283 (Poland: Łódź: railway areas); Saure, 2007:82 (Germany: in checklist of Aculeata of Land Brandenburg); Venne, Bleidorn, and Lauterbach, 2007:301 (Germany: Nordrhein-Westfalen: Bielefeld); Vepřek and Straka, 2007:208 (in catalog of Sphecidae of Czech Republic and Slovakia); Nemkov, 2008b:24 (in catalog of Crabronidae of Asiatic Russia); Theunert, 2008:40 (Germany: map of distribution in Niedersachsen and Bremen); Nemkov, 2009b:135 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); Pagliano, 2009:178 (Italy: recorded from Trentino-AltoAdige by Kohl, 1888); Straka, Dvořák, and

Bogusch, 2009:261 (Czech Republic: Jizerské Mountains and Frýdlant region); Bitsch, 2010:112 (in supplement to vol. II of Faune de France, 1997: reference to Pagliano, 2009; France: first record from Lozère: Saint-Etienne-Vallée-Française); Esser, Fuhrmann, and Venne, 2010:36 (Germany: in checklist of aculeates of Nordrhein-Westfalen); Hable, Krauss, von der Dunk, and Wickl, 2010:27 (Germany: Bayern: Sulz- and Ottmaringer Tal); Jakubzik, Kinkler, and Cölln, 2010:154 (Germany: Rheinland-Pfalz: Leverkusen-Steinbüchel); Mokrousov, 2010a:61 (Russia: Nizhniy Novgorod and Vladimir oblast's, Chuvash Repubic: no specific localities); J. Neumayer, 2010:334 (Austria: Niederösterreich: Thayatal National Park); Schmid-Egger, 2010a:16 (in red list of Aculeata of Germany: rare); Shoreko and Konovalov, 2010:15 (Ukraine: Khar'kov Oblast': Skripai); Smetana, Roller, Beneš, Bogusch, Dvořák, Holý, Karas, Macek, Straka, Šima, Tyrner, Vepřek, and Zeman, 2010:101 (Western Slovakia: recorded from Borská Nižina); Treiber, 2010:135 (France: département du Bas-Rhin); van der Smissen, 2010a:341 (Germany: Schleswig-Holstein: Büchen, Grißheim, Wulfsdorfer Heide), 2010b:384 (France: Ardèche: Saint-Thomé); Burger, 2011a:287 (Germany: in red list of Sphecidae *sensu lato* of Thüringen); Józan, 2011:183 (in checklist of Sphecidae *sensu lato* of Hungary); Mokrousov, Berezin, and Egorov, 2011:67 (Russia: Chuvash Republic); Gerth, Mayer, Hering, Wolf, Schaffer, and Bleidorn, 2012:9 (Germany: Sachsen: Bienitz in Leipzig); Saure, 2011a:6 (Germany: Berlin: former airport Tempelhof); Theunert, 2011a:20 (Germany: in checklist of aculeates of Niedersachsen including city of Bremen); Tischendorf, Frommer, Flügel et al., 2011:81 (Germany: Hessen: recorded both before and after 1990); Ziska and Saure, 2011:109 (Germany: Berlin: Tegeler Fließ valley); Cölln, Jakubzik, and Kinkler, 2012:24 (Germany: Nordrhein-Westfalen: Leverkusen); Gerth, Mayer, Hering, Wolf, Schaffer, and Bleidorn, 2012:9 (Germany: Sachsen: Bienitz in Leipzig); Saure, 2012b:229 (Germany: Berlin-Spandau: Spandauer Forst); Akulov and Proshchalykin, 2013:117 (Russia: Siberia: Krasnoyarsk Kray: 20 km south of Minusinsk); A. Scholz and Liebig, 2013:20 (Germany: Sachsen: in list of Sphecidae *sensu lato*); Wiśniowski and Szczepko, 2013:35 (Poland: Kampinos National Park near Warszawa); Bitsch, 2014:398 (recent records from France and Germany reported); Shoreko, 2015:337 (in list of Sphecidae *sensu lato* of Crimea); Blažej, Macek, and Trýzna, 2016:120 (Czech Republic: České Švýcarsko = Bohemian Switzerland National Park); Bleidorn, Gerth, Hopfe, et al., 2016:10 (Germany: Sachsen: Trages circa 20 km south of Leipzig); Mokrousov and Popov, 2016:567 (Russia: Krasnodarskiy Kray); Saure, 1916c:205 (Germany: center of Berlin: Großer Tiergarten Park); Stolle and Saure, 2016:923 (Germany: in list of Sphecidae *sensu lato* of Sachsen-Anhalt); Wiśniowski, 2016:128 (Poland: Ojców National Park); Jansen, 2017:8 (Germany: Sachsen: Leipzig); Nemkov, 2017a:Table p. 5 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:222 (in catalog of Bembicinae of Russia); Shoreko, 2018:129 (Crimea, including localities, habitats, and number of specimens); Olszewski and Kowalczyk, 2019:99 (northern Poland: Pomorze Gdańskie = Gdańsk Pomerania); Shoreko, 2019:211 (rare in Crimea); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:240 (in Sphecid Fauna of Europe); Kejval, Blažej, and Erhart, 2020:91 (western Czech Republic); Saure, 2020:276 (Germany: Sachsen-Anhalt: sand dunes); Mokrousov and Proshchalykin, 2021b:177 (in key to Palearctic *Gorytes*); Olszewski, Wiśniowski, and Ljubomirov, 2021:90 (in commented list of Sphecidae *sensu lato* of Poland). – As *Hoplisus fallax*: Schneid, 1941:1041 (new combination, Germany: Bayern: Bamberg area); Bat'a, 1942:86 (Czech Republic); Szulczewski, 1950:107 (Poland: Wielkopolski National Park 15 km south of Poznań); Bat'a, 1952:167 (Czech Republic). – As *Psammaecius fallax*: Radoszkowski, 1892:583 (new combination, male genitalia).

23. *fasciatus* W. Fox

Gorytes fasciatus W. Fox, 1896a:539, ♂. Lectotype: ♂, USA: Colorado: no specific locality (ANSP), designated by Cresson, 1928:47. – Maidl and Klima, 1939:112 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisis*); Krombein in Muesebeck, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera); Nemkov and Pulawski, 2009:9 (reverted to *Gorytes*, in cladistic analysis of Gorytina). – As *Hoplisus fasciatus*: Casolari and Casolari Moreno, 1980:121 (specimens in M. Spinola collection, Torino; may be a species different from Fox's). – As *Pseudoplisis fasciatus*: Ashmead, 1899:328 (new combination, in checklist of North American

Crabronidae); R. Bohart, 1969b:393 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1695 (in catalog of North American Hymenoptera).

24. *flagellatus* R. Bohart

Gorytes flagellatus R. Bohart, 1971:448, ♀, ♂. Holotype: ♂, USA: California: Nevada County: Sagehen Creek near Hobart Mills (UCD). – Evans, 1973c:149 (Wyoming: Jackson Hole); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1694 (in catalog of North American Hymenoptera); Ratzlaff, 2016:24 (Canada: British Columbia: after Krombein, 1979).

25. *flavidulus* (R. Bohart)

Pseudoplisis flavidulus R. Bohart, 1969b:402, ♂. Holotype: ♂, USA: California: Imperial County: Brawley (UCD). – R. Bohart, 1969b:393 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1695 (in catalog of North American Hymenoptera). – As *Gorytes flavidulus*: Nemkov and Pulawski, 2009:7 (new combination, in cladistic analysis of Gorytina).

26. *foveolatus* Handlirsch

Gorytes foveolatus Handlirsch, 1888b:485, ♀, ♂ (♀ = ?). Lectotype: ♂, Dalmatia: Spalato, now Croatia: Split (NHMW), designated by de Beaumont, 1953f:187, 188. – Dalla Torre, 1897:542 (in catalog of world Sphecidae); Gasperini, 1889:70 (Dalmatia: Spalato, now Croatia: Split); Schletterer, 1901:218 (Croatia: southern Istria Peninsula); W. Schulz, 1904b:97 (Turkey: Brussa, now Bursa); Maidl and Klima, 1939:94 (in catalog of world Astatinae and Bembicinae); Šnoflák in Zavadil and Šnoflák, 1948:70, 71 (in key to Sphecidae of Czechoslovakia); de Beaumont, 1953f:186 (in revision of western Palearctic *Gorytes*); Bajári, 1957a:108, 109 (in key to Hungarian Sphecidae, not yet found in Hungary); Ceballos, 1959:229 (in supplement to catalog of Spanish Sphecidae); de Beaumont and Bytinski-Salz, 1959:101 (Israel); de Beaumont, 1965a:36 (Greece); Balthasar, M. Hrubant, and E. Hrubant, 1967:172 (Bulgaria: Slanchev Bryag near Nessebar); de Beaumont, 1967a:315 (Turkey), 1969:84 (Turkey); Balthasar, 1972:310 (in Sphecid Fauna of Czechoslovakia); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Kolesnikov, 1977:317 (Russia: Bryansk Oblast'); Pulawski, 1978:202 (in key to Sphecidae of European part of USSR); Gayubo, 1882e:107 (Spain: Cádiz Province); Gayubo, 1986a:64 (Spain: Ciudad Real Province); Dollfuss, 1989:9 (lectotype in NHMW); Nemkov, 1990b:680, 684 (in key to *Gorytes* of USSR), 689 (Ukraine: Crimea; Russia: Krasnodar); Dollfuss, 1991:191 (in key to Sphecidae of North and Central Europe); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:193 (in Sphecid Fauna of Western Europe); Giachino, Grossi, Marchetti, Pagliano, Scaramozzino, and Vailati, 2000:109 (Greece); Schmid-Egger, 2002b:177 (in revision of western Palearctic *Gorytes*); Gayubo and Özbek, 2005:17 (Turkey: Bilecik, Erzurum: Ýspir); Shorenko, 2005a:167 (Ukraine: Crimea), 2005b:98 (Ukraine: Crimea: Karadagh Nature Reserve); Vepřek and Straka, 2007:208 (in catalog of Sphecidae of Czech Republic and Slovakia, known from Slovakia only), 233 (Slovakia: Devinská Kobyla); Ljubomirov and Yıldırım, 2008:78 (in catalog of Crabronidae of Turkey); Józan, 2009:166 (Croatia: Lindar); Shorenko, 2009:368 (in list of Sphecidae *sensu lato* of Crimea); Shorenko and Konovalov, 2010:15 (Ukraine: Lugansk Oblast': D'yakovo); Murai and Amr, 2011:110 (Syria: Al Thawrah Nature Reserve at 35°51'N 28°38'E); Prisniy, 2012:51 (Russia: Belgorod Oblast'); Protsenko, Fateryga, and Ivanov, 2014:30 (Crimea: several localities); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); Mokrousov and Popov, 2016:567 (Russia: Krasnodarskiy Kray); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces); Shorenko, 2015:337 (in list of Sphecidae *sensu lato* of Crimea); Jahantigh, Rakhshani, Mokhtari, and Ramroodi, 2017:36 (Iran: known from Kordestan Province); Nemkov, 2017a:Table p. 5 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:222 (in catalog of Bembicinae of Russia, as *foveolatus foveolatus*); Shorenko, 2017:79 (in Crimea collected in June and July), 2018:129 (Crimea, including localities, habitats, and number of specimens); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:240 (in Sphecid Fauna of Europe); Shorenko, 2020:50 (Crimea: Karadag Nature Reserve); Kaplan and Yıldırım, 2021:31 (in catalog of Crabronidae of Turkey);

Mokrousov and Proshchalykin, 2021b:175, 177 (in key to Palearctic *Gorytes*); Kaplan and Yildirim, 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

ssp. *dichrous* Mercet

Gorytes dichrous Mercet, 1906a:120, ♂, ♀. Syntypes: Spain: Madrid and Huesca Provinces: five localities (MNCN). – Mercet, 1906a:134, 139 (in key to Spanish *Gorytes*); Dusmet, 1915:88 (Spain: Aragón), 1935:49 (Spain: Madrid: Montarco and Vaciamadrid), 52 (Spain: Madrid: Parla); Maidl and Klima, 1939:94 (in catalog of world Astatinae and Bembicinae); Giner Marí, 1943a:180 (in Sphecid Fauna of Spain); de Andrade, 1949:18 (Portugal); Ceballos, 1956:382 (in catalog of Hymenoptera of Spain); Diniz, 1959:29 (Portugal: Algés, Areias, Benfica, Lisboa); R. Bohart and Menke, 1976:501 (as synonym of *Gorytes foveolatus*). – As *Gorytes foveolatus dichrous*: de Beaumont, 1953f:189 (new status, in revision of western Palearctic *Gorytes*), 1962b:24 (Spain); Ceballos, 1964:92 (in supplement to catalog of Spanish Sphecidae); Diniz, 1973:44 (Portugal: Lisboa, Peniche, San Martinho do Porto); Cross, Baldock, and Wood, 2021:25 (in catalog of Sphecidae *sensu lato* of Portugal).

ssp. *usurpator* W. Schulz

Gorytes longicornis Handlirsch, 1898b:488, ♂, junior secondary homonym of *Sphex longicornis* Rossi, 1790, which is a junior synonym of *Gorytes mystaceus* (Linnaeus, 1761), now in *Argogorytes*. Lectotype: ♂, Algeria: Tlemcen (NHMW), designated by de Beaumont, 1953f:190. – Maidl and Klima, 1939:94 (in catalog of world Astatinae and Bembicinae); de Beaumont, 1953g:113 (Morocco); Ceballos, 1964:92 (in supplement to catalog of Spanish Sphecidae); Dollfuss, 1989:9 (lectotype in NHMW); R. Bohart and Menke, 1976:501 (as synonym of *Gorytes foveolatus*). – As *Gorytes foveolatus longicornis*: de Beaumont, 1953f:189 (new status, in revision of western Palearctic *Gorytes*); Roche, 2007a:114 (in catalog of Egyptian Ampulicidae, Sphecidae, and Crabronidae), 2007b:8 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae).

Gorytes usurpator W. Schulz, 1906:200. Substitute name for *Gorytes longicornis* Handlirsch (Article 59.3).

Gorytes rubrocinctulus Strand, 1910e:217, ♂. Holotype: ♂, Algeria: Constantine Province: no specific locality (depository?), synonymized with *Gorytes foveolatus longicornis* by de Beaumont, 1953f:187. – Strand, 1927:254 (in list of species described by author); Maidl and Klima, 1939:99 (in catalog of world Astatinae and Bembicinae).

27. *guerrero* (R. Bohart)

Leiogorytes guerrero R. Bohart, 2000:179, ♀, ♂. Holotype: ♂, Mexico: Guerrero: Omilteme (BMNH). – Amarante, 2002:16 (in catalog of Neotropical Crabronidae). – As *Gorytes guerrero*: Nemkov and Pulawski, 2009:9 (new combination, in cladistic analysis of Gorytina).

28. *hadrus* (R. Bohart)

Pseudoplisis hadrus R. Bohart, 1969b:406, ♀. Holotype: ♀, Mexico: Michoacán: 2 mi. south of Tzitzio (Kansas Univ.). – R. Bohart, 1969b:393 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Amarante, 2002:17 (in catalog of Neotropical Crabronidae); Ruiz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae). – As *Gorytes hadrus*: Nemkov and Pulawski, 2009:7 (new combination, in cladistic analysis of Gorytina).

29. *hebraeus* de Beaumont

Gorytes hebraeus de Beaumont, 1953f:181, ♀. Holotype: ♀, Jordan: Jericho (NHMW). – de Beaumont and Bytinski-Salz, 1959:101 (Israel); de Beaumont, 1967a:314 (Turkey); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Dollfuss, 1989:9 (holotype in NHMW); Nemkov, 1990b:681 (in key to *Gorytes* of USSR), 688 (Armenia: Arax valley); Schmid-Egger, 2002b:177 (in revision of western Palearctic *Gorytes*); Ljubomirov and Yildirim, 2008:78 (in catalog of Crabronidae of Turkey); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); Yıldırım, Ljubomirov, Özbeş, and Yüksel, 2016:13 (Turkey: Erzurum: Dereboğazı); Nemkov, 2017:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae); Mokrousov, Proshchalykin, Aliyev, and Maharramov, 2019:11 (Azerbaijan:

Nakhichevan Autonomous Republic); Kaplan and Yildirim, 2021:32 (in catalog of Crabronidae of Turkey); Mokrousov and Proshchalykin, 2021b:175 (in key to Palearctic *Gorytes*); Kaplan and Yildirim, 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

30. *imperialis* (R. Bohart)

Pseudoplisis imperialis R. Bohart, 1969b:403, ♂. Holotype: ♂, USA: California: Imperial County: no specific locality (USNM). – R. Bohart, 1969b:393 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1695 (in catalog of North American Hymenoptera). – As *Gorytes imperialis*: Nemkov and Pulawski, 2009:7 (new combination, in cladistic analysis of Gorytina).

31. *intrudens* Nurse

Gorytes intrudens Nurse, 1903b:14, ♀, ♂. Syntypes: India: Rajasthan: Mount Abu (BMNH). – Ramakrishna Aiyar, 1916:556 (in catalog of Indian aculeates described after Bingham, 1897); Maidl and Klima, 1939:55 (in catalog of world Astatinae and Bembicinae); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae).

32. *ishigakiensis* Tsuneki

Gorytes ishigakiensis Tsuneki, 1982f:48, ♂. Holotype: ♂, Ryukyu Islands: Island of Ishigaki (originally K. Tsuneki coll., now Hyogo Mus.). – Tsuneki, 1982g:63 (know from Ryukyu archipelago); Tano, 1994a:8 (holotype in K. Tsuneki coll.); Hashimoto and Nakanishi, 1997:24 (holotype transferred to Hyogo Mus.); Nemkov, 1999b:3 (comparison with *Gorytes kohlii*); Yamane, Ikudome, and Terayama, 1999:533 (Japan: in Identification Guide to Crabronidae of Nansei = Ryukyu Islands); Takahashi, 2006a:4 (prey: *Ugyops vittatus* (Matsusmura), a delphacid); Terayama, 2006:7, 8, 10 (in key to Japanese Bembicinae).

33. *jonesi* (R. Turner)

Arpactus jonesi R. Turner, 1920b:494, ♂. Holotype: ♂, South Africa: KwaZulu-Natal: Zululand: M'fongosi (SAM). – Arnold, 1929a:235 (in revision of southern African Sphecidae), 1930:18 (in checklist of Afrotropical Sphecidae). – As *Gorytes jonesi*: Maidl and Klima, 1939:72 (new combination, in catalog of world Astatinae and Bembicinae); Bohart and Menke, 1976:235 (in checklist of world Sphecidae).

34. *kohlii* Handlirsch

Gorytes kohlii Handlirsch, 1888b:511, ♀, ♂ (as *Kohlii*, incorrect original capitalization). Lectotype: ♀, Dalmatia, now Croatia: no specific locality (NHMW), designated by de Beaumont, 1953f:198. – Gasperini, 1889:70 (Dalmatia); Dalla Torre, 1897:543 (in catalog of world Sphecidae); Mocsáry, 1897:82 (Kingdom of Hungary: Fiume, now Croatia: Rijeka); Maidl and Klima, 1939:50 (in catalog of world Astatinae and Bembicinae); Zavadil in Zavadil and Šnoflák, 1948:66 (in new subgenus *Laevigorytes*); de Beaumont, 1953f:198 (in revision of western Palearctic *Gorytes*); Balthasar, 1972:316 (in Sphecid Fauna of Czechoslovakia: not yet found in country); Pulawski, 1978:201 (in key to Sphecidae of European part of USSR); Nemkov, 1999b:3 (retransferred to *Gorytes*, comparison with *Gorytes ishigakiensis*); Amarante, 2005a:9 (correction to his 2002 catalog); Shorenko, 2005a:167 (Ukraine: Crimea), 2005b:98 (Ukraine: Crimea: Karadagh Nature Reserve); Ljubomirov and Yildirim, 2008:76 (in catalog of Crabronidae of Turkey); Protsenko, Fateryga, and Ivanov, 2014:31 (Crimea: Nikitskiy Garden near Yalta); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); Mokrousov and Gromenko, 2015:126 (Uzbekistan: 3 km northeast of village Uchkyzyl at 37°21'56"N 67°17'3"E); Shorenko, 2015:337 (in list of Sphecidae *sensu lato* of Crimea); Mokrousov and Popov, 2016:567 (Russia: Krasnodarskiy Kray); Nemkov, 2017a:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:222 (in catalog of Bembicinae of Russia); Shorenko, 2017:79 (in Crimea collected in July), 2018:129 (Crimea, including localities, habitats, and number of specimens); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:241 (in Sphecid Fauna of Europe); Shorenko, 2020:50 (Crimea: Karadag Nature Reserve); Kaplan and Yildirim, 2021:32 (in catalog of Crabronidae of Turkey); Mokrousov and Proshchalykin, 2021b:175 (in key to Palearctic *Gorytes*); Kaplan and Yildirim, 2023:1681

(in checklist of Sphecidae *sensu lato* of Turkey). – **As *Pseudoplisis kohlii***: R. Bohart and Menke, 1976:503 (new combination, in checklist of world Sphecidae); Dollfuss, 1989:12 (lectotype in NHMW); Nemkov, 1990b:689 (in revision of *Gorytes* of USSR; Ukraine: Crimea; Kazakhstan, Turkmenistan); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:238 (in Sphecid Fauna of Western Europe); Esenbekova and Kazenas, 2000:62 (southeastern Kazakhstan: 30 km south-southwest of Koktal); Tschuch and Brothers, 2000:322 (stridulatory organs on terga IV and V laterally); Kazenas, 2001b:46 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:122 (geographic distribution, collecting localities in Kazakhstan); Schmid-Egger, 2002b:187 (in revision of western Palearctic *Gorytes*, discussion of generic placement); Kazenas, 2008a:105 (southeastern Kazakhstan: Ili River valley: 17 km northwest of Bakanas, 30 km south of Koktal); Shorenko, 2009:368 (in list of Sphecidae *sensu lato* of Crimea); Bitsch, 2010:115 (in supplement to vol. II of Faune de France, 1997: taxonomic history); Kazenas, 2013b:498 (southeastern Kazakhstan: 30 km south of Koktal).

Gorytes kozlovi Nesterov, 1993:51, ♀. Holotype: ♀, Kazakhstan: Alma Ata Oblast': Charyn River 15 km west of Chundja (Zool. Inst. Ukrain. Acad. Sci. Kiev). Synonymized with *Pseudoplisis kohlii* by Nemkov, 1995a:3.

35. *kulingensis* Yasumatsu

Gorytes kulingensis Yasumatsu, 1943:17, ♀. Holotype: ♀, China, Jiangxi: Kuling (Heude Mus., Shanghai). – R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Hua, 2006:280 (in list of Chinese insects, geographic distribution).

36. *laticinctus* (Lepeletier de Saint Fargeau)

Euspongus laticinctus Lepeletier de Saint Fargeau, 1832:66, ♀, ♂ (as *Laticinctus*, incorrect original capitalization). Syntypes: France: Paris area and Pyrénées (M. Spinola collection, Torino). – Lepeletier de Saint Fargeau, 1845:66 (in revision of world Hymenoptera); P. Ivanov, 1872:152 (Ukraine: Kharkov Oblast': Kupyansk area); Wesmael, 1839:77 (comparison with *Gorytes arenarius* Vander Linden); Yaroshevskiy, 1881:125 (Ukraine: Khar'kiv Oblast': Kupyansk); Acloque, 1897:83 (in Sphecid Fauna of France and Algeria); Bat'a, 1952:167 (Czech Republic). – **As *Arpactus laticinctus***: Tjeder, 1954:67 (new combination, Sweden: eastern Skåne: Sandhammaren). – **As *Hoplisus laticinctus***: Dahlbom, 1843:161 (new combination, in revision of Sphecidae and Pompilidae), 1845:482 (in key to European *Hoplisus*); Wesmael, 1852:99 (Belgium, coloration); Kirschbaum, 1853:45 (Germany: Herzogtum Nassau: near Weilburg); Schenck, 1857:169 (Germany: in revision of fossorial wasps of Nassau Region); A. Costa, 1859:34 (Italy: in revision of Sphecidae of Kingdom of Naples); Funk, 1859:59 (Germany: Bayern: Bamberg); Schenck, 1860:148 (Germany: Nassau Region); Brischke, 1862:101 (Germany: Preussen Province, now Poland: Pomorze Region); A. Costa, 1863:66 (Italy: Calabria Ulteriore: Aspromonte), 1864c:124 (Italy: Campania: Benevento area), 1866:24 (specimen from France in Museo Zoologico di Napoli), 1867c:66 (in revision of Italian Sphecidae); Jaennicke, 1867:147 (Germany: Hessen: Frankfurt area); Kirchner, 1867:220 (in catalog of European Hymenoptera); Schenck, 1867a:355 (Germany: Nassau Region); Jaennicke, 1868:9 (Germany: Hessen: Rüsselheim); A. Costa, 1869b:82 (in revision of Italian Sphecidae); Palma, 1869:40 (Italy: Sicilia settentrionale); Thomson, 1870:246 (in revision of Swedish wasps); Dours, 1874:150 (in catalog of Hymenoptera of France); Thomson, 1874:235 (in revision of Hymenoptera of Scandinavia); Wierzejski, 1874:259 (Poland: Kraków, Żegiestów); Radoszkowski, 1877:42 (Uzbekistan); E. Saunders, 1880:271 (in revision of British Aculeata); Friese, 1883:202 (Germany: Thüringen: Gumperda); Kohl, 1883e:668 (Switzerland); Sickmann, 1883:80 (Germany: Niedersachsen: Wellingholthausen); A. Costa, 1884b:33 (Italy: Sardegna: Meanna, as *latecinctus*); Wüstnei, 1886:41 (Germany: Schleswig-Holstein: Sonderburg); Schøyen, 1887:10 (Norway: Kristiania, now Oslo); Brischke, 1888b:98 (Germany: Preussen Province, now Poland: Pomorze Region); Baldini, 1894:67 (Italy: Modena area); De-Stefani, 1895:227 (in catalog of Sicilian Hymenoptera); Borries, 1897:64 (reference to Schenck, 1857:315); Flamary, 1898:45 (France: Saône-et-Loire: Mâcon area); Strand, 1898b:94 (Norway); de Gaulle, 1908:120 (in catalog of French Hymenoptera); Cavro, 1910:685 (France: Département du Nord); Schirmer, 1912:166 (Germany: Berlin area); A. Wagner, 1920:32 (Germany: Lower Elbe region); Noskiewicz, 1922a:8 (Poland: Lwów area, now Ukraine: Lviv area); Coulon,

1925:119 (France: Evreux, Oise); Schütze, 1925:112 (Germany: Lausitz Region); Hémon, 1926:199 (France: Finistère: Fouesnant); Hamm and Richards, 1930:103 (nesting habits unknown); Bondroit, 1932:32 (Belgium: recorded from Bruxelles area by Wesmael), 1933:6 (Belgium: Bruxelles); Jansson, 1934:290 (Sweden); van der Vecht, 1934:10 (Netherlands: Den Haag); Richards, 1937b:107 (in checklist of British aculeates); Kloet, 1941:235 (Great Britain: Wales: Cardiff); Schneid, 1941:1040 (Germany: Bayern: Bamberg area); Boyd, 1943:163 (Britain: eastern Dorset); Glowacki, 1953:519 (Poland: Podkowa Leśna near Warszawa); Nouvel and Ribaut, 1953:178 (France: Central Pyrénées: Cauterets, Saint-Béat); Bradley, 1957:48 (types in M. Spinola collection, Torino); Hamann, 1960:195 (Austria: Niederösterreich: Mönchgraben at 48°13'N 14°21'E); Lefeber, 1966:209 (Netherlands: Bemelen, Sint-Pietersberg); Andrewes, 1975:104 (England); Casolari and Casolari Moreno, 1980:121 (specimens in M. Spinola collection, Torino); Pagliano, 2014:88, 89 (specimens in M. Spinola collection, Torino, are *Gorytes laticinctus* and *Gorytes* sp.) – As *Gorytes laticinctus*: Shuckard, 1837a:217 (new combination, in revision of British Aculeata); von Siebold, 1839:52 (Germany: Danzig, now Poland: Gdańsk); F. Smith, 1851c:38 (Great Britain: New Forest), 1853:65 (in checklist of British Hymenoptera), 1856:361 (in catalog of Hymenoptera in British Museum), 1858c:106 (in review of British Aculeata, redescription), 1871b:12 (in catalog of British Aculeata); Kohl, 1880:171 (Austria: Tirol: Mühlau, and Italy: Trentino–Alto Adige); Handlirsch, 1888b:461 (in revision of world Bembicinae); Kohl, 1888b:727 (Austria: Tirol, now Italy: Alto Adige), 1893:27 (Austria: Niederösterreich); F. Morawitz, 1893a:112 (Russia: Karelian Isthmus); Sickmann, 1893:89 (Germany: Niedersachsen: Iburg); Handlirsch, 1895:915 (additional bibliography); E. Saunders, 1896:108 (in revision of British Aculeata); Westerlund, 1896:28 (Finland: no specific locality); Dalla Torre, 1897:542 (in catalog of world Sphecidae); Mocsáry, 1897:82 (Kingdom of Hungary, localities are in today's Romania and Slovakia); Handlirsch, 1898b:488 (Algeria); de Cobelli, 1903:113 (Italy: Province of Trentino); Antiga and Bofill, 1904:16 (Spain: Cataluña Province); Aurivillius, 1904:270 (in revision of Swedish Sphecidae); W. Schulz, 1904b:97 (Czechoslovakia: Trencin, as Trencsin); Mantero, 1905:70 (Italy: Toscana: Isola del Giglio); Mercet, 1906a:132, 141 (in key to Spanish *Gorytes*); Móczár and Henter, 1907:205 (Hungary: Hatvan, Putnok; Romania: Caraș-Severin: Mehadia); Schmiedeknecht, 1907:218, 221 (in key to Hymenoptera of Central Europe); Dittrich, 1911b:23 (Germany: Niederschlesien Province, now Poland: Dolny Śląsk Region); Graeffe, 1911:46 (Italy: Trieste area); Alfken, 1914:279 (northwestern Germany); Birula, 1914:385 (Belorussia: Luskinopol' near Vitebsk); Haines, 1914:129 (Great Britain: Dorset: Moreton); Zilahi Kiss, 1915:80 (Hungary: Boksánbánya); O. Meyer, 1919:153 (Germany: Posen Province, now Poland: Poznań Region); Dubois, 1922:201, 203 (in key to Belgian Sphecidae); Berland, 1925d:88 (in Sphecid Fauna of France); Bischoff, 1925:300 (Latvia: Wezkukkul; Poland: Białowieża and Grajewo area); Bouwman, 1926:280 (in list of Sphecidae of Netherlands, as *laticinctus* Shuckard); Friese, 1926:159 (in key to Sphecidae of Central Europe, short morphological and biological characteristics); Bouwman, 1927:54 (in revision of Sphecidae of Netherlands); Barovskij, 1929:149 (Russia: Toksovo north-northeast of Sankt Petersburg); Schmiedeknecht, 1930:681, 683 (in key to Hymenoptera of North and Central Europe); Pulkkinen, 1931:63 (in revision of Sphecidae of Finland); Zavadil, 1932:95 (Czechoslovakia); Balles, 1934:20 (Germany: Baden-Württemberg: Oberachern); Forsius in Forsius and Hellén, 1935:11 (in checklist of Hymenoptera of Finland); Crèvecoeur and Maréchal, 1936:253 (in catalog of Belgian Hymenoptera); Blüthgen, 1937:236 (Germany: Saale River valley: Naumburg); Zavadil, Šustera, and Bat'a, 1937:190 (in catalog of Sphecidae of Czechoslovakia); Guiglia, 1938b:9 (Italy: Sardinia); Móczár, 1938c:81 (Hungary: Kőszeg Hills); Redikortsev, 1938:144 (Russia: Mordovian State Nature Reserve); A. Wagner, 1938a:121 (northwestern Germany); Maidl and Klíma, 1939:67 (in catalog of world Astatinae and Bembicinae); Maréchal, 1939:341 (Belgium: Loën); Balthasar, 1941b:112 (Czech Republic: eastern Moravia); Guiglia, 1941c:163 (Italy: Calabria: Grande Sila); Paul, 1941:44 (Germany: Pommern: Stettin area, now Poland: Województwo Zachodniopomorskie: Szczecin area); Balthasar, 1943:41 (Czech Republic: Moravia: Zlín area); Benno, 1943:66 (Netherlands: Babberich); Giner Marí, 1943a:178 (in Sphecid Fauna of Spain); Guiglia, 1944b:19 (Italy); Muller, 1948:139 (Belgium: Warsage); Šnoflák in Zavadil and Šnoflák, 1948:73, 74 (in key to Sphecidae of Czechoslovakia); Caruel, 1951:100 (France: Marne Department); de Beaumont, 1951g:311 (Italy), 1951h:32 (Switzerland: Neuchâtel area); Leininger, 1951:117 (Germany: Baden-

Württemberg: Kaiserstuhl, Michaelsberg); de Beaumont, 1953f:170 (in revision of western Palearctic *Gorytes*), 1954e:89 (Italy); Grandi, 1954:233 (Italy); Aerts, 1955:62 (Germany: Rheinland); Atanassov, 1955:200 (Bulgaria: Sandansky, Varna, as Stalin); Steiner, 1955:144 (France: Dordogne); Ceballos, 1956:382 (in catalog of Hymenoptera of Spain, as *laticinctus* Shuckard); Vergne, 1955:4 (France: Auvergne); Vogrin, 1955:35 (Yugoslavia); Bajári, 1957a:105, 109 (in key to Hungarian Sphecidae); Grandi, 1957:385 (Italy: Abruzzi); Zirngiebl, 1957:181 (Germany: Rheinland-Pfalz: Pfalz region); Benno, 1958b:11 (in review of Dutch Sphecidae); Compte Sart, 1959:133 (Spain: Mayorca); Olberg, 1959:340-341 (photographs of female digging nest); Wolf, 1959b:30 (Germany: Nassau); Noskiewicz and Puławski, 1960:91, 94 (in key to Polish Sphecidae); Hoop, 1961:65 (Germany: Schleswig-Holstein: Brandsbek, Flemhude, Kiel-Eichhof); Grandi, 1962:98 (Italy); Valkeila, 1962b:67 (southwestern Finland); Hoop, 1963a:73 (Germany: Schleswig-Holstein: Reher Kratt); Babiy, 1964:117 (Austria: Land Salzburg); Ceballos, 1964:92 (in supplement to catalog of Spanish Sphecidae); de Beaumont, 1964c:48 (in Sphecid Fauna of Switzerland); Plavil'shchikov, 1964:122 (Russia: Mordovian State Nature Reserve); Fæster, 1965:193 (Denmark: Hansted Nature Reserve); Evans, 1966d:67 (synopsis of biological information); Benno, 1967:34 (in checklist of Sphecidae of Netherlands); de Beaumont, 1967a:312 (Turkey); Gauss, 1967:552 (Germany: Baden-Württemberg); J. Heinrich, 1967:71 (Germany: Bayern: Unterfranken District); Niedl and Deneš, 1967:82 (Czech Republic: Třeboň area); Scobiola-Palade, 1967b:47 (Romania); Benedek, 1968:72 (Hungary, floral records); Benedek, 1969a:83 (Hungary: marshy meadow), 1969b:421 (Hungary: Csopak, collected in vicinity of aphid *Hyalopteritena pruni* (Geoffroy)); Lefeber, 1969c:233 (Netherlands: Sint-Pietersberg = Montagne Saint Pierre); Petit, 1969:72 (Belgium); Romanova, 1969:133 (Russia: North Caucasus); Schmidt, 1969:161 (Germany: Rhein-Main area: Wiesbaden); Zangheri, 1969:1701 (Italy: in catalog of flora and fauna of Romagna Region); Benedek, 1970:97 (Hungary: Tapolca); Gauss and Perraudin, 1970:360 (Germany: Baden-Württemberg: Bodensee area); Hoop, 1970:60 (Germany: Schleswig-Holstein: Weißenhaus); Oehlke, 1970:688 (Democratic Germany); Tumšs, 1970:79 (first record from Latvia); Lefeber, 1971a:17 (Belgium: Bassenge); Petit, 1971:21 (Luxemburg: Bourscheid, Echternach, Pintsch, Schutzbourg); Balthasar, 1972:314 (in Sphecid Fauna of Czechoslovakia); Haeseler, 1972:155 (Germany: Schleswig-Holstein, anthropogenic habitats); Kofler, 1972:106 (Austria: eastern Tirol); Lomholdt, 1972:122 (Denmark: Island of Læsø); Oehlke, 1972:136 (Germany: Island of Hiddensee); Diniz, 1973:44 (Portugal: Coimbra, Figueira da Foz, Vouzela); Lefeber, 1973:152 (Belgium: Plombières); Haeseler, 1973:53 (Germany: Schleswig-Holstein: Nieby 30 km east of Lübeck); Wolf, 1973:41 (Germany: Siegerländer Hüttensand); Lefeber and Petit, 1974:163 (Belgium: Plombières); Frilli and Pizzaghi, 1975:53 (Italy: Cerignale in Piacenza Province); Lefeber, 1975a:37 (Netherlands: Heemskerkduin, Overveen), 1975b:122, 154 (Belgium); Lomholdt, 1975c:196 (in Sphecid Fauna of Fennoscandia and Denmark); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Eck, 1976:90 (Democratic Germany); Wolf, 1976:30 (Germany: Nordrhein-Westfalen: Victoria Mine near Littfeld); Schmidt, 1977:96 (Germany: Baden-Württemberg: Enzklosterle in Schwarzwald); Marion, 1978:86 (France: Nièvre Department); Petit, 1978:86 (Belgium: Sourbrodt); Pulawski, 1978:202, 204 (in key to Sphecidae of European part of USSR); Schwamberger, 1978:417 (Germany: Württemberg); Benedek, 1979:229 (Hungary: Bakony Mountains); Lefeber, 1979:11 (in checklist of Sphecidae of Netherlands), 41 (Netherlands: distribution map); Marchal and Leclercq, 1979:11 (Belgium: Gembloux); Schmidt, 1979b:347 (Germany: Baden-Württemberg); Pagliano, 1980:115 (Italy: Piemonte); Richards, 1980:81 (in key to Sphecidae of British Isles); Westrich, 1980:629 (Germany: Baden-Württemberg: Tübingen area; specimens recorded by Schmidt, 1966 as *Gorytes quinquefasciatus* actually are *G. laticinctus*); Dollfuss and Ressl, 1981:324 (Austria: Niederösterreich: Scheibbs District); Woydak, 1981:40 (Germany: Westfalen: Hamm); Donath, 1982:212 (Germany: Cottbus Bezirk); Gayubo, 1982b:40 (Spain, Ávila and Salamanca provinces); Skibińska, 1982:123 (Poland: Warszawa area); Dollfuss, 1983b:22 (Austria); Józan, 1983:100 (Hungary); Riemann, 1983:83 (Germany: Bremen-Daverden area); Westrich, 1983:80 (Germany: Tübingen area); Chevin and Silvestre de Sacy, 1984:10 (France: Yvelines Department); Haack, Tscharntke, and Vidal, 1984:128 (Germany: Hamburg area); Nilsson, 1984:104 (Sweden: Västmanland Province); Sagvolden, 1984:19

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Scholz and Liebig, 2013:20 (Germany: Sachsen: in list of Sphecidae *sensu lato*); Shlyakhtenok, 2013:232 (in annotated catalog of aculeate wasps of Belorussia); Vieira, Oliveira, Brewster, and Gayubo, 2013:15 (Portugal: Douro International Natural Park); Wiśniowski and Piotrowski, 2013:21 (Poland: Poleski National Park); Bitsch, 2014:398 (recent records from France reported); Flügel, 2014:254 (Brandenburg: Hangelsberger Heide); U. Frommer, 2014:27 (Germany: Hessen: Lorch); Hellqvist, Abenius, and Norén, 2014:90 (in catalog of Ampulicidae, Sphecidae, and Crabronidae of Sweden, by provinces); Mokrousov and Vafin, 2014:55 (Russia: Republic of Tatarstan); Protsenko, Fateryga, and Ivanov, 2014:29 (Crimea: Krasnoles'ye in Simferopol' District and Karasevka in Belogorsk District); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); P. Rosa and Pagliano, 2015:101 (Italy: Lombardia and Piemonte: Parco del Ticino); Schedl, 2015:948 (Austria: Tirol: Innsbruck: Botanical Garden); Shoreko, 2015:338 (in list of Sphecidae *sensu lato* of Crimea); Simon, Lorthiois, and Macé, 2015:54 (France: alluvial terraces in Eure Department: Courcelles-sur-Seine, and Seine-Maritime Department: Anneville-Ambourville); Blažej, Macek, and Trýzna, 2016:121 (Czech Republic: České Švýcarsko = Bohemian Switzerland National Park); Bleidorn, Gerth, Hopfe, et al., 2016:10 (Germany: Sachsen: Trages circa 20 km south of Leipzig); Cölln and Jakubzik, 2016:17 (Germany: Rheinland-Pfalz: Vulkaneifel District); Le Divelec, Chapelin-Viscardi, and Larivière, 2016:108 (northern France: in agricultural landscapes); Mokrousov and Popov, 2016:567 (Russia: Krasnodarskiy Kray); Saure, 2016a:8 (Germany: Brandenburg: Uckermark District: dry slopes near Altgalow-Stützkow), 2016b:49 (Germany: Sachsen-Anhalt: fruit orchards); Stolle and Saure, 2016:923 (Germany: in list of Sphecidae *sensu lato* of Sachsen-Anhalt); Wiśniowski, 2016:128 (Poland: Ojców National Park); Yıldırım, Ljubomirov, Özbek, and Yüksel, 2016:13 (Turkey: Tunceli: Mazgirt: Meşelik); Durand and Burguet, 2017:2 (France: Puy-de-Dôme: Réserve Naturelle Nationale Chastreix-Sancy);

Magdalou, 2017:15 (France: Pyrénées-Orientales: Réserves Naturelles Catalanes: Forêt de la Massane, Vallée d'Eyne); Nemkov, 2017a:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:223 (in catalog of Bembicinae of Russia, as *laticinctus laticinctus*); Shorenko, 2017:79 (in Crimea collected in July); Creutzburg, Winter, Baumbach, and Ssymank, 2018:216 (Germany: Thüringen: Wachsenburg Nature Reserve); Nicolas and Vago, 2018:13 (France: Pas-de-Calais: Mont Saint-Frieux); Shorenko, 2018:129 (Crimea, including localities, habitats, and number of specimens); Carminati, Mora, and Cretin, 2019:10 (France: in list of Sphecidae *sensu lato* of Franche-Comté); Olszewski and Kowalczyk, 2019:99 (northern Poland: Pomorze Gdańskie = Gdańsk Pomerania); Ruchin and Antropov, 2019a:13222 (Russia: Mordovia State Nature Reserve); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:241 (in Sphecid Fauna of Europe); Kejval, Blažej, and Erhart, 2020:92 (western Czech Republic); Cross, Baldock, and Wood, 2021:26 (in catalog of Sphecidae *sensu lato* of Portugal); Herb and Schmid-Egger, 2021:9 (Germany: Bayern: Kaufbeuren area); Kaplan and Yildirim, 2021:32 (in catalog of Crabronidae of Turkey); Mokrousov and Proshchalykin, 2021b:175, 177 (in key to Palearctic *Gorytes*); Olszewski, Wiśniowski, and Ljubomirov, 2021:90 (in commented list of Sphecidae *sensu lato* of Poland); Jakubzik and Cölln, 2022:11 (Germany: Rheinland-Pfalz: Moselle River valley between Drohn and Kattenes); Japoshvili and Ljubomirov, 2022:276 (Georgia: Lagodekhi Protected Areas); Pytel-Huta, Skyrpan, Tsaryk, Shydlovskyy, and Khamar, 2022:54 (western Ukraine); U. Frommer and Bahmer, 2023:194 (Germany: Hessen: Giessen University Botanical Garden); Kaplan and Yildirim, 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

As *Gorytes quinquefasciatus*: Schmidt, 1966: (Germany: Baden-Württemberg: Tübingen), corrected to *Gorytes laticinctus* by Westrich, 1980:629.

ssp. *koreanus* Handlirsch

Gorytes koreanus Handlirsch, 1888b:471, ♀ (as *Koreanus*, incorrect original capitalization). Holotype: ♀, Korea: no specific locality (Kraków). – Dalla Torre, 1897:543 (in catalog of world Sphecidae); Gussakovskij, 1932:31 (description of ♂; Russia: Primorskiy Kray: Sedanka); Maidl and Klima, 1939:67 (in catalog of world Astatinae and Bembicinae); Tsuneki, 1963a:3, 5 (in key to Gorytini of Japan and Korea), 13 (in revision of Gorytini of Japan and Korea, Japan: Hokkaido), 1965c:33 (in key to Bembicinae of Japan and Korea), 1969d:15 (nesting behavior), 1974a:361 (Korea); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Kazenas, 1980e:83 (Primorskiy Kray and Island of Kunashir); Tsuneki, 1982b:18 (known from Korea); Paik, 1985:202 (in list of Sphecidae of Korea); Tsuneki, 1991:199 (Korea); Kinota, Haneda, and Tano, 2005:31 Japan: Hokkaido); Terayama, 2006:7, 9, 13 (in key to Japanese Bembicinae). – As *Gorytes laticinctus koreanus*: Nemkov, 1989:68, 70 (in key to *Gorytes* of Siberia and Russian Far East), 71 (new status), 1990b:682, 685 (in key to *Gorytes* of USSR); Nemkov in Nemkov, Kazenas, Budrys, et Antropov, 1995:461, 464 (in key to Sphecidae of Russian Far East); Nemkov, 2005a:159 (Russia: Island of Sakhalin), 2007b:75 (Russia: Kuril Islands: Island of Kunashir), 2009b:135 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2009c:238 (Russia: Primorskiy Kray: Lazovsky Nature Reserve), 2012c:446 (in catalog of Crabronidae of Russian Far East); J.-K. Kim, 2014:422 (in catalog of Sphecidae *sensu lato* of Korean Peninsula); Nemkov, 2017b:222 (in catalog of Bembicinae of Russia); Jacobs and Liebig, 2018:142 (Russia: Irkutsk Oblast': Ust'-Ordynski steppe, as *koreanus* (Lepeletier)).

Gorytes radoszkowskyi Handlirsch, 1888b:470, ♀ (as *Radoszkowskyi*, incorrect original capitalization). Holotype: ♀, Korea: no specific locality (Kraków). Synonymized with *Gorytes laticinctus koreanus* by Nemkov, 1989:71. – Dalla Torre, 1897:553 (in catalog of world Sphecidae); Maidl and Klima, 1939:71 (in catalog of world Astatinae and Bembicinae); Tsuneki, 1963a:3 (in key to Gorytini of Japan and Korea), 15 (in revision of Gorytini of Japan and Korea, Korea), 1965c:31 (in key to Bembicinae of Japan and Korea); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Tsuneki, 1982b:18 (known from Korea); Paik, 1985:202 (in list of Sphecidae of Korea).

37. *limbellus* R. Bohart

Gorytes limbellus R. Bohart, 1971:447, ♀, ♂. Holotype: ♂, USA: California: Napa County: Samuel Springs, now bottom of Lake Berryessa (UCD). – R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1694 (in catalog of North American Hymenoptera).

38. *maculicornis* (F. Morawitz)

Hoplisus maculicornis F. Morawitz, 1889a:149, ♀. Lectotype: ♀, China: Gansu: Sigu (ZIN), designated by Nemkov, 1889:72. – As *Gorytes maculicornis*: Handlirsch, 1895:922 (new combination, original description copied); Dalla Torre, 1897:545 (in catalog of world Sphecidae); Maidl and Klima, 1939:94 (in catalog of world Astatinae and Bembicinae); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Nemkov, 1989:68, 70 (in key to *Gorytes* of Siberia and Russian Far East), 1990b:681, 685 (in key to *Gorytes* of USSR), 1992b:250 (Russia: Far East: Khingan Nature Reserve); Nemkov in Nemkov, Kazenas, Budrys, et Antropov, 1995:462, 464 (in key to Sphecidae of Russian Far East); Haneda, Nosaka, Tano, Kurokawa, and Murota, 2004:38 (Japan: Gifu Prefecture); Suda, 2004:46 (Japan: Yamanashi Prefecture); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:54 (Japan: Gifu Prefecture); Kinota, Haneda, and Tano, 2005:31 (Japan: Hokkaido); nec Yildirim and Ljubomirov, 2005:1792 (= *Gorytes quinquefasciatus*); Hua, 2006:280 (in list of Chinese insects, geographic distribution); Nemkov, 2006b:169 (Russia: Primorskiy Kray: Kedrovaya Pad' Nature Reserve); Terayama, 2006:8, 10 (in key to Japanese Bembicinae); Nemkov, 2008b:24 (in catalog of Crabronidae of Asiatic Russia), 2009b:136 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2009c:238 (Russia: Primorskiy Kray: Lazovsky Nature Reserve), 2012c:446 (in catalog of Crabronidae of Russian Far East); J.-K. Kim, 2014:422 (in catalog of Sphecidae *sensu lato* of Korean Peninsula); Nemkov, 2017a:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:223 (in catalog of Bembicinae of Russia); Itami, 2018:9 (Japan: Niigata Prefecture), 15 (color photographs); Mokrousov and Proshchalykin, 2021b:175 (in key to Palearctic *Gorytes*).

Gorytes eous Gussakovskij, 1932:30, ♀, ♂. Lectotype: ♀, Russia: Primorskiy Kray: Sedanka (Stockholm), designated by Nemkov, 1889:72. Synonymized with *Gorytes maculicornis* by Nemkov, 1989:72. – Maidl and Klima, 1939:94 (in catalog of world Astatinae and Bembicinae); nec Yasumatsu, 1942c:110 (= *Gorytes mongolicus*); Tsuneki, 1963a:4, 5 (in key to Gorytini of Japan and Korea), 14 (in revision of Gorytini of Japan and Korea; Korea; Japan: Honshu, Hokkaido), 1965c:31, 32 (in key to Bembicinae of Japan and Korea), 1967g:44 (western Japan: Hyonosen Mountain); Haneda, 1968a:46 (Japan), 1968b:56 (Japan: Nagano Prefecture: Ina District), 1969:70 (Japan: Yamanashi Prefecture); Itami, 1969:47 (Japan: Niigata Prefecture); Haneda, 1970:13 (Japan: Akita Prefecture); Tsuneki, 1970b:9 (central Japan); Suda, 1973:123 (Japan: Yamanashi Prefecture); Nambu, 1975b:71 (Japan: Saitama Prefecture); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Paik, 1985:202 (in list of Sphecidae of Korea); Miyatake, 1996:103 (specimens in Hiroshi Aoki collection); Kazenas, 1980e:83 (Russia: Far East); Tsuneki, 1982b:18 (known from Korea).

As *Gorytes tricinctus* Yano, 1932:280 and 1950:1470, corrected to *Gorytes eous* by Tsuneki, 1963a:14.

Gorytes harbinensis Tsuneki, 1967e:5, ♂. Holotype: ♂, China: Harbin (RMNH). Synonymized with *Gorytes maculicornis* by Nemkov, 2016a:6. – R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Nemkov, 1989:70 (in key to *Gorytes* of Siberia and Russian Far East), 1990b:686 (in key to *Gorytes* of USSR); Gorobchishin, 1991:50 (Russia: Maritime Province: Lazov Nature Reserve); Hua, 2006:280 (in list of Chinese insects, geographic distribution); Nemkov, 2014c:287 (recorded from Asiatic Russia by Gorobchishin, 1991:50).

39. *mcateeai* Krombein and R. Bohart

Gorytes mcateeai Krombein and R. Bohart in Krombein, 1962a:15, ♀. Holotype: ♀, USA: Maryland: Plummers Island (USNM). – Krombein, 1963f:277 (Maryland: Plummers Island near Washington, D.C.); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1694 (in catalog of North American Hymenoptera).

40. *melpomene* (Arnold)

Arpactus melpomene Arnold, 1936:9, ♀. Holotype: ♀, Zimbabwe: Balla-Balla (SAM). – As *Gorytes melpomene*: Maidl and Klima, 1939:54 (new combination, in catalog of world Astatinae and Bembicinae); Bohart and Menke, 1976:501 (new combination, in checklist of world Sphecidae).

41. *mikhailovi* Mokrousov and Proshchalykin

Gorytes mikhailovi Mokrousov and Proshchalykin, 2021b:172, ♀, ♂. Holotype: ♀, Kazakhstan: Alma-Ata-Iliysk (ZMMU). – Mokrousov and Proshchalykin, 2021b:175 (in key to Palearctic *Gorytes*).

42. *montanus* Cameron

Gorytes montanus Cameron, 1890a:77, ♂. Holotype or syntypes: ♂, Mexico: Guerrero: Omilteme (BMNH). – Ashmead, 1890:32 (in checklist of Hymenoptera of Colorado); Handlirsch, 1895:926 (original description translated into German); Dalla Torre, 1897:546 (in catalog of world Sphecidae); Maidl and Klima, 1939:112 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisis*); Nemkov and Pulawski, 2009:9 (reverted to *Gorytes*, in cladistic analysis of Gorytina). – As *Pseudoplisis montanus*: Ashmead, 1899:328 (new combination, in checklist of North American Crabronidae); R. Bohart, 1969b:393 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Tschuch and Brothers, 2000:324 (stridulatory organs absent on terga IV and V); Amarante, 2002:17 (in catalog of Neotropical Crabronidae); Ruiz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae).

43. *natalensis* F. Smith

Gorytes natalensis F. Smith, 1856:365, ♀ (as *Natalensis*, incorrect original capitalization). Holotype or syntypes: ♀, South Africa: KwaZulu-Natal: Port Natal, now Durban (BMNH). – Handlirsch, 1888b:515 (in revision of world Bembicinae), 1895:933 (reference to Staveley, 1860); Dalla Torre, 1897:548 (in catalog of world Sphecidae); Birmingham, 1902:212 (South Africa: Durban); Maidl and Klima, 1939:55 (in catalog of world Astatinae and Bembicinae); van Vondel, 1995:25 (specimens from Malawi in Natuur museum Rotterdam); Nemkov and Pulawski, 2009:9 (reverted to *Gorytes*, in cladistic analysis of Gorytina). – As *Megalomma natalensis*: Gribodo, 1895:350 (new combination, Mozambique: Howick, additional description). – As *Arpactus natalensis*: Arnold, 1929a:233 (in revision of southern African Sphecidae), 1930:18 (in checklist of Afrotropical Sphecidae). – As *Pseudoplisis natalensis*: R. Bohart and Menke, 1976:503 (new combination, in checklist of world Sphecidae); Callan, 1991d:1611 (nesting habits); Tschuch and Brothers, 2000:322 (stridulatory organs on terga IV and V laterally); Evans and O’Neil, 2007:57 (summary of information on nesting habits).

Lestiphorus africanus Radoszkowski, 1881:207, ♀. Holotype or syntypes: ♀, Angola: no specific locality (Kraków). Synonymized with *Gorytes natalensis* by Handlirsch, 1888b:515.

44. *neglectus* Handlirsch

Gorytes neglectus Handlirsch, 1895:916, ♀, ♂. Syntypes: Siberia between Irkutsk and mouth of Ussuri River (NHW or Kraków?), see Nemkov, 1989:72. – Dalla Torre, 1897:548 (in catalog of world Sphecidae); Maidl and Klima, 1939:69 (in catalog of world Astatinae and Bembicinae); Hellén 1955b:65 (Finland, redescription), 1956:45 (recorded from Finland); Valkeila, 1959a:182 (Finland: Kuusamo); Lomholdt, 1975c:198 (in Sphecid Fauna of Fennoscandia and Denmark); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); van der Zanden, 1977b:39 (Finland: Kuusamo); Pulawski, 1978:203 (in key to Sphecidae of European part of USSR); Nemkov, 1986:108 (Russia: Siberia: Irkutsk Oblast'); Vikberg, 1986:78 (Finland); Nemkov, 1989:69, 71 (in key to *Gorytes* of Siberia and Russian Far East), 1990b:682, 684 (in key to *Gorytes* of USSR); Dollfuss, 1991:200 (in key to Sphecidae of North and Central Europe); Nemkov in Nemkov, Kazenas, Budrys, et Antropov, 1995:463, 464 (in key to Sphecidae of Russian Far East); Mokrousov, 2000a:24 (Russia: Nizhniy Novgorod Oblast': village Staraya Pustyn' in Arzamas District), 2000b:31 (Russia: Nizhniy Novgorod Oblast'); Kazenas, 2001b:46 (in checklist of Sphecidae of Kazakhstan and Central Asia); Schmid-Egger, 2002b:178 (in revision of western Palearctic *Gorytes*); Söderman

and Vikberg, 2002:53 (in list of Aculeata of Finland); Nemkov, 2005a:159 (Russia: Island of Sakhalin); Takahashi, 2006:4 (prey: *Bathysmatophorus japonicus* Ishishara and *B. shabliovskii* Kusnetzov, cicadellids); Terayama, 2006:8, 9, 10 (in key to Japanese Bembicinae); Nemkov, 2008b:24 (in catalog of Crabronidae of Asiatic Russia); Humala and Polevoi, 2009:63 (Russia: Republic of Karelia east of Lake Onega: River Koloda); Nemkov, 2009b:136 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2009c:238 (Russia: Primorskiy Kray: Lazovsky Nature Reserve); Mokrousov, 2010a:61 (Russia: Nizhniy Novgorod Oblast': no specific localities); Rudoiskatel', 2010:151 (Russia: central Ural Mountains); Baghirov, 2011b:141 (Russia: recorded from Altay by Nemkov *in* Nemkov, Kazenas, Budrys, and Antropov, 1995); Rudoiskatel', 2011d:240 (Russia: central Ural Mountains); Nemkov, 2012c:446 (in catalog of Crabronidae of Russian Far East); Danilov and Odintseva, 2013:334 (Russia: Western Siberia: 65 km north-northeast of Tobol'sk at 58°45'N 68°74'E); Shlyakhtenok, 2013:233 (in annotated catalog of aculeate wasps of Belorussia); J.-K. Kim, 2014:422 (in catalog of Sphecidae *sensu lato* of Korean Peninsula); Mokrousov and Egorov, 2015:424 (Russia: Republic of Mordovia: Nature State Reserve Prisuskiy); Paukkunen and Kozlov, 2015:63 (Russia: Murmansk Oblast'); Yıldırım, Ljubomirov, Özbel, and Yüksel, 2016:13 (first record from Turkey: Rize: Çamlıhemşin: Halil Şışman, record improbable for zoogeographic reasons); Nemkov, 2017a:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:223 (in catalog of Bembicinae of Russia); Itami, 2018:9 (Japan: Niigata Prefecture), 15 (color photographs); Jacobs and Liebig, 2018:142 (Russia: Buryat Republic: East Sayan: bank of Black Irkut and 30 km northwest of Mondy; Primorskiy Kray: Kavalerovo, Posigma); Ruchin and Antropov, 2019a:13222 (Russia: Mordovia State Nature Reserve); Akulov, Proshchalykin, and Mokrousov, 2020:48 (Russia: central Krasnoyarsk Kray); Bitsch, Barbier, and Jacobs *in* Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:242 (in Sphecid Fauna of Europe); Mokrousov and Proshchalykin, 2021b:176, 177 (in key to Palearctic *Gorytes*); Hallqvist, Hellqvist, and Stenmark, 2020:121 (first record from Sweden: Norrbotten Province: Laduberg and Lakaträsk); Kaplan and Yıldırım, 2021:32 (in catalog of Crabronidae of Turkey), 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

Gorytes hakutozanus Tsuneki, 1963a:17, ♀, ♂. Holotype: ♀, North Korea: Nansetsu-rei (originally K. Tsuneki coll., now Hyogo Mus.). Synonymized with *Gorytes neglectus* by Nemkov, 1989:72. – Tsuneki, 1963a:4, 6 (in key to Gorytini of Japan and Korea), 1965c:32, 33 (in key to Bembicinae of Japan and Korea); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Kazenas, 1980e:83 (Russia: Primorskiy Kray); Tsuneki, 1982b:18 (known from Korea); Paik, 1985:202 (in list of Sphecidae of Korea); Tano, 1994a:8 and 1995:43 (holotype in K. Tsuneki coll.); Hashimoto and Nakanishi, 1997:24 (holotype transferred to Hyogo Mus.).

45. *nevadensis* W. Fox

Gorytes nevadensis W. Fox, 1892:150, ♀, ♂. Lectotype: ♀, USA: Nevada: no specific locality (ANSP), designated by Cresson, 1928:48. – Handlirsch, 1895:918 (original description translated into German); W. Fox, 1896a:537 (Nevada); Dalla Torre, 1897:548 (in catalog of world Sphecidae); Maidl and Klima, 1939:102 (in catalog of world Astatinae and Bembicinae); Krombein *in* Muesebeck, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1694 (in catalog of North American Hymenoptera). – As *Hoplisus nevadensis*: Ashmead, 1899d:328 (new combination, in checklist of North American Crabronidae).

46. *nigricomus* (R. Bohart)

Pseudoplisis nigricomus R. Bohart, 1969b:398, ♀, ♂. Holotype: ♂, USA: Arizona: Santa Cruz County: Madera Canyon in Santa Rita Mountains (UCD). – R. Bohart, 1969b:394 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1695 (in catalog of North American Hymenoptera); Amarante, 2002:17 (in catalog of Neotropical Crabronidae). – As *Gorytes nigricomus*: Nemkov and Puławska, 2009:7 (new combination, in cladistic analysis of Gorytinae).

47. *nigrifacies* (Mocsáry)

Hoplisus nigrifacies Mocsáry, 1879:134, ♀, ♂. Syntypes: Hungary: Budapest (TMB). – Haris, 2016:15 (in list of species described by S. Mocsáry from Carpathian Basin). – As *Gorytes nigrifacies*: Handlirsch, 1888b:494 (new combination, in revision of world Bembicinae), 1895:921 (Spain: Barcelona; variation); Dalla Torre, 1897:549 (in catalog of world Sphecidae); Mocsáry, 1897:82 (Hungary except Grebenácz is in today's Romania); Antiga and Bofill, 1904:16 (Spain: Cataluña Province); Mercet, 1906a:136, 139 (in key to Spanish *Gorytes*); Schmiedeknecht, 1907:220, 221 (in key to Hymenoptera of Central Europe), 1930:682, 683 (in key to Hymenoptera of North and Central Europe); Maidl and Klima, 1939:94 (in catalog of world Astatinae and Bembicinae); Giner Marí, 1943a:181 (in Sphecid Fauna of Spain); Šnoflák in Zavadil and Šnoflák, 1948:70 (in key to Sphecidae of Czechoslovakia, not yet found in Czechoslovakia); de Beaumont, 1953f:182 (in revision of western Palearctic *Gorytes*); Bajári, 1957a:106, 109 (in key to Hungarian Sphecidae); Balthasar, 1958:337 (first record from Slovakia: Kamenice n. Hr.); Ceballos, 1959:229 (in supplement to catalog of Spanish Sphecidae); de Beaumont and Bytinski-Salz, 1959:101 (Israel); Balthasar and Hrbant, 1961:15 (Slovakia: Kamenice nad Hronom); de Beaumont, 1962b:24 (Spain); Ceballos, 1964:92 (in supplement to catalog of Spanish Sphecidae); Benedek, 1968:73 (Hungary, visiting flowers of *Pastinaca sativa* L., Apiaceae); Ceballos, 1956:383 (in catalog of Hymenoptera of Spain); Benedek, 1969a:83 (Hungary: marshy meadow); de Beaumont, 1965a:36 (Greece), 1967a:313 (Turkey), 1969:85 (Turkey); Benedek, 1969a:83 (Hungary; marshy meadow); Suárez, 1969:29 (Spain: Almería Province); Benedek, 1970:97 (Hungary: Tapolca); Balthasar, 1972:306 (in Sphecid Fauna of Czechoslovakia); Diniz, 1973:45 (Portugal: Caparica, Carcavelos, Estoril, Lisboa, Montemor-o-Velho); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Pulawski, 1978:202, 203 (in key to Sphecidae of European part of USSR); Gayubo, 1982b:40 (Spain: Ávila, Cáceres, and Salamanca provinces), 1882e:107 (Spain: Cádiz Province); Gayubo and Tormos, 1984:20 (Spain: Valencia); Scobiola-Palade, 1985:96 (Romania: Józan, 1986:373 (Hungary: Kiskunság National Park); Dollfuss, 1987:24 (first record from Austria: Bisamberg near Wien), 1988:19 (Austria: Bisamberg); Dollfuss, 1989:9 (type material in NHMW), 1991:200 (in key to Sphecidae of North and Central Europe); Gayubo, Asís, and Tormos, 1990b:78 (Spain: Cáceres Province); Nemkov, 1990b:680, 684 (in key to *Gorytes* of USSR), 688 (Russia: Daghestan); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:195 (in Sphecid Fauna of Western Europe); Giachino, Grossi, Marchetti, Pagliano, Scaramozzino, and Vailati, 2000:109 (Greece); Schmid-Egger, 2002b:179 (in revision of western Palearctic *Gorytes*); Shorenko, 2003:97 (Ukraine: Crimea); Gayubo and Özbek, 2005:17 (Turkey: Erzurum: İlýca, Oltu, Sarýsaz); Jacobs, 2005a:445 (Bulgaria: Topolovgrad); Vepřek and Straka, 2007:208 (in catalog of Sphecidae of Czech Republic and Slovakia, known from Slovakia only); Ljubomirov and Yıldırım, 2008:80 (in catalog of Crabronidae of Turkey); Baños-Picón, Asís, Gayubo, and Tormos, 2009:311 (Spain: frequency of specimens collected with hand nets and Malaise traps); Shorenko, 2009:368 (in list of Sphecidae *sensu lato* of Crimea); Bitsch, 2010:112 (in supplement to vol. II of Faune de France, 1997: recent records from Bulgaria and Ukraine reported; France: first records from Aude: Laure-Minervois, Aveyron: Millau, Tarn: massif de Nore; characteristics of males from Tarn); van der Smissen, 2010b:384 (France: Ardèche: Saint-Maurice-d'Ibie, Saint-Thomé); Józan, 2011:183 (in checklist of Sphecidae *sensu lato* of Hungary); Protsenko, Fateryga, and Ivanov, 2014:31 (Crimea); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); Shorenko, 2015:338 (in list of Sphecidae *sensu lato* of Crimea); Gülmез and Can, 2017:82 (Turkey: Erzincan Province); Nemkov, 2017a:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:223 (in catalog of Bembicinae of Russia); Shorenko, 2017:79 (in Crimea collected in May through July), 2018:129 (Crimea, including localities, habitats, and number of specimens); Mokrousov, Proshchalykin, Aliyev, and Maharramov, 2019:11 (Azerbaijan: Nakhichevan Autonomous Republic); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:242 (in Sphecid Fauna of Europe); Cross, Baldock, and Wood, 2001:26 (in catalog of Sphecidae *sensu lato* of Portugal); Kaplan and Yıldırım, 2021:32 (in catalog of Crabronidae of Turkey); Mokrousov and Proshchalykin, 2021b:175 (in key to Palearctic *Gorytes*); Kaplan and Yıldırım, 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

48. *nyasicus* (R. Turner)

Arpactus nyasicus R. Turner, 1915d:288, ♂. Holotype or syntypes: ♂, Malawi: southwest of Lake Chilwa (BMNH). – Arnold, 1929a:236 (original description copied), 1930:18 (in checklist of Afrotropical Sphecidae). – As *Gorytes nyasicus*: Maidl and Klima, 1939:88 (new combination, in catalog of world Astatinae and Bembicinae). – As *Pseudoplatus nyasicus*: R. Bohart and Menke, 1976:503 (new combination, in checklist of world Sphecidae).

49. *ocellatus* (R. Bohart)

Pseudoplatus ocellatus R. Bohart, 1969b:401, ♀, ♂. Holotype: ♂, USA: California: Inyo County: Big Pine (UCD). – R. Bohart, 1969b:393 (in key to North American *Pseudoplatus*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1695 (in catalog of North American Hymenoptera); Ruiz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae). – As *Gorytes ocellatus*: Nemkov and Pulawski, 2009:7 (new combination, in cladistic analysis of Gorytina).

50. *pieli* Yasumatsu

Gorytes pieli Yasumatsu, 1943:15, ♀. Holotype: ♀, China: Nei Mongol: Chahar: Yangkianping (Heude Mus., Shanghai). – R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Nemkov, 1989:72 (first record from Russia: Primorskiy Kray and Chita Oblast'), 1989:69, 70 (in key to *Gorytes* of Siberia and Russian Far East), 1990b:683 (in key to *Gorytes* of USSR); Nemkov in Nemkov, Kazenas, Budrys, et Antropov, 1995:463, 464 (in key to Sphecidae of Russian Far East); Hua, 2006:280 (in list of Chinese insects, geographic distribution); Nemkov, 2008b:24 (in catalog of Crabronidae of Asiatic Russia), 2009b:136 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2012c:446 (in catalog of Crabronidae of Russian Far East); J.-K. Kim, 2014:422 (in catalog of Sphecidae *sensu lato* of Korean Peninsula); Nemkov, 2017a:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:223 (in catalog of Bembicinae of Russia); Jacobs and Liebig, 2018:142 (Russia: Irkutsk Oblast': Bol'shoye Goloustnoye); Mokrousov and Proshchalykin, 2021b:177 (in key to Palearctic *Gorytes*).

Gorytes takeuchii Tsuneki, 1963a:18, ♂. Holotype: ♂, North Korea: Kazan (originally Kyoto Mus., now Hyogo Mus.). Synonymized with *Gorytes pieli* by Nemkov, 1989:72. – Tsuneki, 1963a:5 (in key to Gorytini of Japan and Korea), 1965c:32 (in key to Bembicinae of Japan and Korea); R. Bohart and Menke, 1976:502 (in checklist of world Sphecidae); Tsuneki, 1982b:18 (known from Korea); Paik, 1985:202 (in list of Sphecidae of Korea); Tano, 1995:43 (holotype in K. Tsuneki collection); Hashimoto and Nakanishi, 1997:23 (holotype transferred to Hyogo Mus.).

51. *planifrons* (Wesmael)

Hoplitus planifrons Wesmael, 1852:100, ♀. Holotype: ♀, Belgium: Bruxelles area (Bruxelles). – Kirchner, 1867:220 (in catalog of European Hymenoptera); Dours, 1874:150 (in catalog of Hymenoptera of France); de Gaulle, 1908:120 (in catalog of French Hymenoptera); Bondroit, 1932:32 (Belgium: recorded from Bruxelles area by Wesmael); Maneval, 1936:22 (France: Haute-Loire: Puy), 1939:57 (nesting, prey, description of larva); Blüthgen, 1949:89 (Germany: Oberbayern: Ellmau). – As *Gorytes planifrons*: F. Smith, 1856:362 (new combination, in catalog of Hymenoptera in British Museum); Kohl, 1883e:668 (Switzerland); Handlirsch, 1888b:466 (in revision of world Bembicinae); Dalla Torre, 1897:550 (in catalog of world Sphecidae); Mocsáry, 1897:82 (Kingdom of Hungary, localities are in today's Croatia and Romania); Antiga and Bofill, 1904:16 (Spain: Cataluña Province); Mercet, 1906a:119 (description of ♂), 139 (in key to Spanish *Gorytes*); Schmiedeknecht, 1907:219 (in key to Hymenoptera of Central Europe); Dubois, 1922:202, 294 (in key to Belgian Sphecidae); Berland, 1925d:88 (in Sphecid Fauna of France); Schmiedeknecht, 1930:681, 68 (in key to Hymenoptera of North and Central Europe); Crèvecoeur and Maréchal, 1936:253 (in catalog of Belgian Hymenoptera); Maidl and Klima, 1939:69 (in catalog of world Astatinae and Bembicinae); Giner Marí, 1943a:178 (in Sphecid Fauna of Spain); de Beaumont, 1945:475 (Switzerland; diagnostic characters); Šnoflák in Zavadil and Šnoflák, 1948:73, 74 (in key to Sphecidae of Czechoslovakia, not yet found in Czechoslovakia); de Beaumont, 1953f:172 (in revision of western Palearctic *Gorytes*), 1954e:89 (Italy); Grandi, 1954:233 (Italy); Ceballos, 1956:383 (in catalog of Hymenoptera of Spain); Evans and Lin, 1956b:45 (description of larva by Maneval, 1939); Bajári, 1957a:106, 109 (in key to Hungarian Sphecidae); Ceballos, 1959:229 (in supplement to

catalog of Spanish Sphecidae); Wolf, 1959b:30 (known from Germany, but not from Nassau); Noskiewicz and Puławski, 1960:91, 93 (in key to Polish Sphecidae, not yet found in Poland); de Beaumont, 1964c:48 (in Sphecid Fauna of Switzerland); Evans, 1966d:67 (synopsis of behavioral observations by Maneval, 1939); Gauss, 1967:552 (Germany: Baden-Württemberg); Stritt, 1968:110 (Germany: Baden-Württemberg); Schmidt, 1969:162 (Germany: Rhein-Main area: Marburg); Oehlke, 1970:689 (occurrence in Democratic Germany questionable); Balthasar, 1972:315 (in Sphecid Fauna of Czechoslovakia); Scobiola Palade, 1972b:252 (Romania); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Cretin and Robert, 1977:45 (France: Doubs: Chassagne-Saint Denis); Pulawski, 1978:202, 203 (in key to Sphecidae of European part of USSR); Schmidt, 1979:348 (Germany); Gayubo, 1982b:41 (Spain: Salamanca: Aldeacipreste, Colmenar de Montemayor, Peñacaballera); Westrich and Schmidt, 1985a:117 (Germany: Baden-Württemberg); Westrich and Schmidt, 1985b:111 (Germany: endangered in Baden-Württemberg); Piek and Spanjer, 1986:184 (in list of Sphecidae with known prey); Steiner, 1986:109 (references to publications on nesting habits); Jacobs and Oehlke, 1990:122 and 212 (occurrence in Democratic Germany questionable); Nemkov, 1990b:682, 685 (in key to *Gorytes* of USSR); Pagliano, 1990:70 (in catalog of Italian Sphecidae); Day, 1991:xv (summary of European Endangered Hymenoptera Lists); Dollfuss, 1991:200 (in key to Sphecidae of North and Central Europe); Gusenleitner, 1991:647 (Austria: Kärnten: Steuerberg); Delarze, 1992:68 (Switzerland: Valais: Les Follatères); Pagliano, 1992:37, 39 (in key to Italian Bembicinae); Józan, 1993:415 (Hungary: Bükk National Park); Jansen and Kaluza, 1995:7 (Germany: extinct in Sachsen); Negrisolo in Minelli, Ruffo, and La Posta, 1995b:4 (in catalog of Italian fauna); Schmid-Egger, Schmidt, and Doczkal, 1996:377 (Germany: Baden-Württemberg: endangered); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:195 (in Sphecid Fauna of Western Europe); Pagliano and Alma, 1997:178 (known prey listed); Schmidt and Schmid-Egger, 1997:15 (in checklist of German Sphecidae); W. Klein, 1999:22 (in improved key to male *Gorytes* of Benelux); Pauly, 1999:111 (in catalog of Belgian aculeates); Blösch, 2000:383 (in Sphecid Fauna of Germany); Ljubomirov, 2000:12 (Bulgaria, specimens in N. Nedelkov collection); Schmid-Egger, 2000b:275, 279 (Germany: Baden-Württemberg: shores of Rhine River); Ohl et al., 2001:139 (distribution in Germany by provinces); Salzmann-Wandeler and Rezbanyai-Reser, 2001:157 (Switzerland: Tessin Canton: Meride area); Martínez de Murguia, Vázquez, and Nieves Aldrey, 2002:202 (Spain: Navarra: Artikutza Forest Reserve at 43°09'28"-43°14'52"N 0°1'45"35"-01°49'30"E); Reder, 2002:1453 (Germany: first record from Rheinland-Pfalz: Monsheim); Schmid-Egger, 2002b:180 (in revision of western Palearctic *Gorytes*); Drewes, 2003:138 (Germany: Bayern: Erlangen); Mandery, Kraus, Voith, Wickl, Scheuchl, Schubert, and Warncke, 2003:66 (in catalog of wasps and bees of Bayern, Germany); Wickl, Voith, Mandery, Weber, Kraus, Bausenwein, and Blösch, 2003:195 (Germany: Bayern: no longer endangered); Deván, 2004:147 (western Slovakia); Zettel, 2004:5 (photograph of digging female), 7 (Austria: Niederösterreich: Gumpoldskirchen); Gusenleitner, 2005:1204 (Austria: Burgenland: Eisenstadt); Jacobs, 2005a:445 (Bulgaria: Sandanski); Quest and Kuhlmann, 2005:33 (Germany: Bayern: Bayerischer Wald National Park); Pagliano and Negrisolo, 2005:143 (in Sphecid Fauna of Italy); Reder, 2005:949 (Germany: Rheinland-Pfalz: Monsheim); Burguet, 2007:unnumbered p. 10 (France: Puy-de-Dôme: sands Girauds-Faures in Orléat commune); Jacobs, 2007:173, 175 (in key to Crabronidae of Germany); Tischendorf, 2007:34 (distribution in Germany; nest parasite: *Nysson niger* Chevrier; prey: *Issus coleoptratus* (Fabricius), an issid; male diagnostic characters); Gayubo, González, Tormos, and Asís, 2008:137 (Spain: Salamanca: Parque Natural de Las Batuecas – Sierra de Francia); Baños-Picón, Asís, Gayubo, and Tormos, 2009:311 (Spain: frequency of specimens collected with hand nets and Malaise traps); Burguet, 2009:15 (France: Département de Puy-de-Dôme: Bois de la Comté); U. Frommer, 2009a:27 (Germany: in checklist of Sphecidae of Hessen), 35 (Germany: Hessen: Marburg an der Lahn); Józan, 2009:166 (Croatia: Sveta Jelena); Bitsch, 2010:112 (in supplement to vol. II of Faune de France, 1997: recent records from Bulgaria and Germany; diagnostic characters in male flagellum; France: first records from Loiret: Ardon, also Haute-Garonne: Toulouse et Saint-Lys); Burguet in Durand and Burguet, 2010:35 (France Département d'Ardèche: Ardèche Gorges); Schmid-Egger, 2010a:16 (in red list of Aculeata of Germany: very rare); Bogusch, Straka, Macek, Dvořák, Vepřek, and Říha, 2011:94 (Czech Republic: Praha-Nusle); Gogala, 2011:27 (Slovenia); Józan, 2011:183 (in checklist of Sphecidae *sensu lato* of Hungary); Tischendorf, Frommer, Flügel et al.,

2011:137 (Germany: Hessen: not endangered); Boillat, 2012:227 (Switzerland: in checklist of insects of Canton de Genève); Burguet *in* Durand and Burguet, 2012:3 (France: Puy-de-Dôme: sands Girauts-Faures in Orléat commune); Nemkov, 2012b:120 (review of known prey); A. Scholz and Liebig, 2013:20 (Germany: Sachsen: in list of Sphecidae *sensu lato*); U. Frommer, 2014:27 (Germany: Hessen: Lorch); Józan, 2014:132 (Croatia: Rovinj: Moščenice); Le Divelec, Chapelin-Viscardi, and Larivière, 2016:108 (northern France: in agricultural landscapes); Nemkov, 2017:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae); Carminati, Mora, and Cretin, 2019:10 (France: in list of Sphecidae *sensu lato* of Franche-Comté); Bitsch, Barbier, and Jacobs *in* Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:243 (in Sphecid Fauna of Europe); Kejval, Blažej, and Erhart, 2020:92 (western Czech Republic); Mokrousov and Proshchalykin, 2021b:175, 177 (in key to Palearctic *Gorytes*); U. Frommer and Bahmer, 2023:194 (Germany: Hessen: Giessen University Botanical Garden); Hoffmann, Gardein, Witt, and Greil, 2023:45 (Germany: Niedersachsen: Braunschweig).

52. *pleuripunctatus* (A. Costa)

Hoplisus pleuripunctatus A. Costa, 1859:31, ♀, ♂. Lectotype: ♂, Italy: Lecce (Napoli), designated by de Beaumont, 1953i:4. – A. Costa, 1867c:62 (in revision of Italian Sphecidae); Kirchner, 1867:220 (in catalog of European Hymenoptera); A. Costa, 1869b:78 (in revision of Italian Sphecidae); Kohl, 1883e:667 (Switzerland); Radoszkowski, 1892:582 (male genitalia); De Stefani Perez, 1895:227 (in catalog of Sicilian Hymenoptera); de Gaulle, 1908:120 (in catalog of French Hymenoptera); Coulon, 1925:119 (Elbeuf Museum, origin unknown). – As *Gorytes pleuripunctatus*: Handlirsch, 1888b:482 (new combination, in revision of world Bembicinae); Kohl, 1888b:728 (Austria: Tirol, now Italy: Alto Adige); Gasperini, 1889:70 (Dalmatia: Spalato, now Croatia: Split); Radoszkowski, 1891:582 (male genitalia); Kohl, 1893a:27 (Austria: Niederösterreich: Piesting); Schletterer, 1894:32 (Istria Peninsula, now part of Croatia, Slovenia, and Italy); Handlirsch, 1895:921 (additional bibliography); Schmiedeknecht, 1896:149 (Algeria: Oran Province); Dalla Torre, 1897:550 (in catalog of world Sphecidae); Mocsáry, 1897:82 (Kingdom of Hungary, some localities are in today's Croatia and Romania); Handlirsch, 1899b:488 (Algeria); de Cobelli, 1903:113 (Italy: Trentino: Faver in Val di Cembra); Antiga and Bofill, 1904:16 (Spain: Cataluña Province); W. Schulz, 1904b:97 (Azerbaijan: Talysh Mountains); Mercet, 1906a:134, 139 (in key to Spanish *Gorytes*); Dusmet y Alonso, 1906:7 (Spain); Schmiedeknecht, 1907:219, 221 (in key to Hymenoptera of Central Europe); nec Dittrich, 1911b:23 (= *Argogorytes fargeii*); Graeffe, 1911:46 (Italy: Trieste area); Morice, 1911:112 (Algeria: Bône, Constantine); Dusmet, 1915:88 (Spain: Aragón); Maidl, 1922:71 (Croatia); Berland, 1925d:89 (in Sphecid Fauna of France); Schmiedeknecht, 1930:681, 683 (in key to Hymenoptera of North and Central Europe); Bernard, 1933:62 (France: Drôme: Dieulefit); Grandi, 1934:59 (prey: *Dictyophara europaea* Linnaeus, a fulgorid), 129 (Italy: Toscana: San Vincenzo); Zavadil, 1934:188 (Slovakia); Bernard, 1935:63 (France: Var: Fréjus area); Zavadil, Šustera, and Bat'a, 1937:191 (in catalog of Sphecidae of Czechoslovakia); Maidl and Klima, 1939:95 (in catalog of world Astatinae and Bembicinae); Zavadil, 1939:121 (Czech Republic: Morava: Čejč, Kobylí; Slovakia: Filakovo); Dovnar-Zapskiy, 1940:304 (Russia: Kursk Oblast'); Guiglia, 1941c:164 (Italy: Calabria: Grande Sila); Giner Marí, 1943a:179 (in Sphecid Fauna of Spain); Guiglia, 1944b:20 (Italy); Balthasar, 1948:141 (Slovakia: Kovačov); Šnoflák *in* Zavadil and Šnoflák, 1948:69, 71 (in key to Sphecidae of Czechoslovakia); de Beaumont, 1950f:402 (Algeria), 1951g:312 (Italy), 1953f:184 (in revision of western Palearctic *Gorytes*), 1953g:113 (Morocco); Móczár, 1953:310 (Hungary); Balthasar, 1954b:270 (Palestine: Alonim near Haifa); Vogrin, 1955:35 (Yugoslavia); Ceballos, 1956:383 (in catalog of Hymenoptera of Spain); Bajári, 1957a:107, 109 (in key to Hungarian Sphecidae); Nouvel and Ribaut, 1958:11 (France: Pyrénées-Orientales: Banyuls-sur-Mer); Pulawski, 1958a:167 (Bulgaria: Kuriilo); de Beaumont, 1959a:20 (Italy); de Beaumont and Bytinski-Salz, 1959:101 (Israel); Noskiewicz and Puławski, 1960:92, 94 (in key to Polish Sphecidae, not yet found in Poland); Grandi, 1961:112 (nesting habits); de Beaumont, 1964c:49 (in Sphecid Fauna of Switzerland), 1965a:36 (Greece), 1967a:314 (Turkey); J. Heinrich, 1967:71 (Germany: Bayern: Marktheidenfeld); de Beaumont, 1969:84 (Turkey); Benedek, 1969a:83 (Hungary; marshy meadow); Oehlke, 1970:689 (not found in Democratic Germany); Balthasar, 1972:309 (in Sphecid Fauna of Czechoslovakia);

Scobiola-Palade, 1972:149 (Romania); Diniz, 1973:45 (Portugal: Coimbra, Portalagre); Erlandsson, 1974:65 (Yugoslavia); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Kazenas, 1978b:75, 77 (in key to Sphecidae of Kazakhstan and Central Asia); Marion, 1978:87 (France: Nièvre Department); Pulawski, 1978:202, 203 (in key to Sphecidae of European part of USSR); Benedek, 1979:230 (Hungary: Bakony Mountains); Gayubo, 1982b:41 (Spain: Ávila and Salamanca provinces); Dollfuss, 1983b:23 (Austria: Niederösterreich); Gayubo, 1983e:234 (Spain: Salamanca Province); Józan, 1985b:61 (Hungary south of Lake Balaton), 81 (floral records), 84 (ecological and zoogeographic characteristics); Scobiola-Palade, 1985:96 (Romania: delta of Danube); Gayubo, 1986d:119 (Spain: Zamora Province), 1986e:992 (teratological specimen); Gayubo and Sanza, 1986:76 (Spain: Burgos); Józan, 1986:373 (Hungary: Kiskunság National Park); Gayubo, Asís, and Tormos, 1990b:78 (Spain: Cáceres and Toledo Provinces); Pádr in Šedivy, 1989a:167 (in checklist of Czechoslovakian Sphecidae); Jacobs and Oehlke, 1990:212 (unknown from Democratic Germany); Pagliano, 1990:71 (in catalog of Italian Sphecidae); Nemkov, 1990b:681, 684 (in key to *Gorytes* of USSR, as *pleuripunctatus pleuripunctatus*), 688 (Russia: Orenburg and Volgograd Oblasts, Krasnodar Kray; Georgia, Azerbaijan, Kazakhstan); Schwammberger and Priesner, 1990:552 (Austria: Kärnten); Dollfuss, 1991:200 (in key to Sphecidae of North and Central Europe); Gayubo, Borsato, and Osella, 1991:414 (Italy: Piemonte: Asti); Józan, 1992a:229 (Hungary: Béda-Karapancsa Protected Area), 1992c:290 (Hungary: Zselic Hills); Pagliano, 1992:37, 39 (in key to Italian Bembicinae); Negrisolo in Minelli, Ruffo, and La Posta, 1995b:4 (in catalog of Italian fauna); Gusenleitner, 1996a:10 (Austria: Steiermark, first collected since 1871), 1996b:812 (Austria: Burgenland, Steiermark); Minoranskiy and Shkuratov, 1996:81 (Russia: Rostov Oblast'); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:196 (in Sphecid Fauna of Western Europe); Pagliano and Alma, 1997:178 (known prey listed); Dollfuss, Gusenleitner, and Bregant, 1998:523 (Austria: summary of collecting records from Burgenland); González, Gayubo, and Torres, 1998:74, 75 (Spain: Valladolid Province); Gorobchishin, 1998a:50 (Ukraine: Kiev and surroundings, as *pleuripunctatus pleuripunctatus*); Gayubo, García, Torres, and González, 1999:91 (Spain: Soria Province); González, Gayubo, and Torres, 1999:356 (Spain: Valladolid: Viana de Cega); M. Schwarz, 1999:88 (Austria: Oberösterreich: city of Linz area); Blösch, 2000:383 (in Sphecid Fauna of Germany); Gayubo, González, and Torres, 2000:187 (Spain: Salamanca Province); Giachino, Grosso, Marchetti, Pagliano, Scaramozzino, and Vailati, 2000:109 (Greece); Józan, 2000:113 (Hungary: Bakony Mountains); Shkuratov, 2000:57 (Russia: Rostov Oblast': Věshenskaya village area at 49°37'N 41°45'E); Józan, 2001:281 (Hungary: Somogy County); Kazenas, 2001b:46 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:121 (geographic distribution, collecting localities in Kazakhstan); Schmid-Egger, 2002b:180 (in revision of western Palearctic *Gorytes*); Drewes, 2003:138 (Croatia: Moščenicka Draga, Šibenik); Shkuratov, 2004a:75 (Russia: Rostov Oblast'), 2004b:165 (Russia: Rostov Oblast': Gosudarstvennyi Muzei-Zapovednik M.A. Sholokhova); Gayubo and Özbek, 2005:17 (Turkey: Erzincan: Agricultural Research Station; Erzurum: İlýca; İldýr); Jacobs, 2005a:445 (Bulgaria: Arkutino near Burgas, Zvechen near Hissarya); Pagliano and Negrisolo, 2005:144 (in Sphecid Fauna of Italy); Shorenko, 2005a:167 (Ukraine: Crimea, as *pleuripunctatus pleuripunctatus*), 2005b:97 (Ukraine: Crimea: Karadagh Nature Reserve, as *pleuripunctatus pleuripunctatus*); Straka, 2005a:394 (extinct in Czech Republic); Yildirim and Ljubomirov, 2005:1792 (Turkey: Erzurum: Tortum); Gorobchishin, 2006:141 (Ukraine: Kyiv Oblast': village Kruglyk); Standfuss and Standfuss, 2006c:305 (Greece: Thessalia: Magnisia Peninsula at 39°N 23°E); Jacobs, 2007:174, 175 (in key to Crabronidae of Germany, not yet found in Germany); Józan, 2007:180 (Hungary: Zselic hills); Vepřek and Straka, 2007:208 (in catalog of Sphecidae of Czech Republic and Slovakia, known from Moravia and Slovakia only); Yildirim and Ljubomirov, 2007:117 (Turkey: Erzurum and Kars Provinces); Ljubomirov and Yildirim, 2008:80 (in catalog of Crabronidae of Turkey); Baños-Picón, Asís, Gayubo, and Tormos, 2009:311 (Spain: frequency of specimens collected with hand nets and Malaise traps); Gayubo, González, Tormos, and Asís, 2009:364 (Spain: Valladolid: Reserva Natural Riberas de Castronuño – Vega del Duero); González, Gayubo, Asís, and Tormos, 2009:625 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park); Józan, 2009:166 (Croatia: 3 km north of Brseč); Shorenko, 2009:368 (in list of Sphecidae *sensu lato* of Crimea); Bitsch, 2010:112 (in supplement to vol. II of Faune de France, 1997: recent records from Bulgaria, Croatia, and France reported; France:

first record from Vaucluse: Roussillon); Rudoiskatel', 2010:151 (Russia: southern Ural Mountains); Shoreiko and Konovalov, 2010:15 (Ukraine: Lugansk Oblast'); van der Smissen, 2010b:384 (France: Ardèche: Saint-Maurice-d'Ibie; Gard: Collias); Gogala, 2011:27 (Slovenia); Józan, 2011:183 (in checklist of Sphecidae *sensu lato* of Hungary); Prisniy, 2012:51 (Russia: Belgorod Oblast'); Yildirim, 2012:76 (Turkey: Erzurum, İğdir, and Kars provinces); Dyuzhaeva, 2013:117 (Russia: Samara Oblast': Zhiguli Nature Reserve, determination tentative); Bitsch, 2014:398 (record from France by van der Smissen, 2010b noted); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); P. Rosa and Pagliano, 2015:101 (Italy: Lombardia and Piemonte: Parco del Ticino); Shoreiko, 2015:338 (in list of Sphecidae *sensu lato* of Crimea); Mokrousov and Popov, 2016:567 (Russia: Krasnodarskiy Kray, color variation); Yildirim, Ljubomirov, Özbeş, and Yüksel, 2016:13 (Turkey: Erzurum Province: several localities); Nemkov, 2017a:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:223 (in catalog of Bembicinae of Russia, as *pleuripunctatus pleuripunctatus*); Shoreiko, 2017:79 (in Crimea collected in June and July); Kemal and Koçak, 2018: 34 (Turkey: in list of pterygot insects of Van Province); Shoreiko, 2018:129 (Crimea, including localities, habitats, and number of specimens); Mokrousov, Proshchalykin, Aliyev, and Maharramov, 2019:11 (Azerbaijan: Nakhichevan Autonomous Republic); Ruchin and Antropov, 2019a:13222 (Russia: Mordovia State Nature Reserve); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:244 (in Sphecid Fauna of Europe); Shoreiko, 2020:49 (Crimea: Karadag Nature Reserve); Cross, Baldock, and Wood, 2021:26 (in catalog of Sphecidae *sensu lato* of Portugal); Kaplan and Yıldırım, 2021:32 (in catalog of Crabronidae of Turkey); Mokrousov and Proshchalykin, 2021b:174 (in key to Palearctic *Gorytes*); Kaplan and Yıldırım, 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

Hoplisus pleuripunctatus A. Costa var. *tirolensis* Kohl, 1880:226, ♀, ♂. Syntypes: Austria: near Bozen, now Italy: Bolzano: Gries, Sankt Anton, and Sankt Justina (NHMW). Synonymized with *Gorytes pleuripunctatus* by Handlirsch, 1888b:482. – Kohl, 1880:172 (Italy: Trentino-Alto Adige).

ssp. *barbarus* de Beaumont

Gorytes pleuripunctatus barbarus de Beaumont, 1953f:186, ♀, ♂. Holotype: ♂, Morocco: Ifrane (Lausanne). – R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Nemkov, 1990b:681, 684 (in key to *Gorytes* of USSR), 688 (Armenia, Azerbaijan).

ssp. *fraternus* Mercet

Gorytes fraternus Mercet, 1906a:119, ♀. Syntypes: Spain: Madrid: Aranjuez, Escorial, Madrid, Montarco (Museo Nacional de Ciencias Naturales, Madrid). – Mercet, 1906a:135 (in key to Spanish *Gorytes*); Dusmet y Alonso, 1935:49 (Spain: Madrid: Montarco and Vaciamadrid), 63 (Spain: Cuenca: Belinchón); Maidl and Klíma, 1939:94 (in catalog of world Astatinae and Bembicinae); Giner Marí, 1943a:179 (in Sphecid Fauna of Spain); Ceballos, 1956:382 (in catalog of Hymenoptera of Spain); R. Bohart and Menke, 1976:501 (as synonym of *Gorytes pleuripunctatus*); Martín Albaladejo and Izquierdo Moya, 2006:121 (type in Museo Nacional de Ciencias Naturales). – As *Gorytes pleuripunctatus fraternus*: de Beaumont, 1953f:184 (new status, in revision of western Palearctic *Gorytes*); Ceballos, 1959:229 (in supplement to catalog of Spanish Sphecidae).

53. *procrustes* Handlirsch

Gorytes procrustes Handlirsch, 1888b:490, ♀, ♂ (as *Procrustes*, incorrect original capitalization). Syntypes: many localities in Austro-Hungary, Croatia, Greece, Italy (NHMW). – F. Morawitz, 1891a:218 (Russia: Astrakhan Governorate); Kohl, 1893a:27 (Austria: Niederösterreich: Marchfeld); Schletterer, 1894:32 (Istria Peninsula, now part of Croatia, Slovenia, and Italy); Handlirsch, 1895:921 (Kazakhstan: Ryn-Peski; Armenia); Dalla Torre, 1897:550 (in catalog of world Sphecidae); Mocsáry, 1897:82 (Kingdom of Hungary, localities are in today's Croatia and Romania); Antiga and Bofill, 1904:16 (Spain: Cataluña Province); Mercet, 1906a:134, 142 (in key to Spanish *Gorytes*); Schmiedeknecht, 1907:219, 221 (in key to Hymenoptera of Central Europe); Birula, 1912:540 (Ukraine: Zhytomyr Oblast': Radomyshl'); Zavattari, 1912:3 (Italy: Sardegna: Pantaleo); Fahringer, 1922:180 (Turkey);

Schmiedeknecht, 1930:681, 683 (in key to Hymenoptera of North and Central Europe); Zavadil, 1937a:72 (eastern Slovakia); Zavadil, Šustera, and Bat'a, 1937:191 (in catalog of Sphecidae of Czechoslovakia); Kuntze and Noskiewicz, 1938:377 (in Poland known only from Podole region, now Ukraine); Móczár, 1938a:161 (Hungary: Budapest), 1938b:62 (Hungary); Maidl and Klima, 1939:95 (in catalog of world Astatinae and Bembicinae); Šnoflák *in* Zavadil and Šnoflák, 1948:69, 72 (in key to Sphecidae of Czechoslovakia); Giner Marí, 1943a:181 (in Sphecid Fauna of Spain); de Beaumont, 1951g:315 (Italy; determination tentative), 1953f:196 (in revision of western Palearctic *Gorytes*), 1954e:89 (Italy); Grandi, 1954:233 (Italy; determination tentative); Vogrin, 1955:35 (Yugoslavia); Ceballos, 1956:383 (in catalog of Hymenoptera of Spain); Morel, Nouvel, and Ribaut, 1956:338 (France: Département des Pyrénées-Orientales); Bajári, 1957a:108,110 (in key to Hungarian Sphecidae); Puławski, 1958a:167 (Bulgaria: Kniazhevo near Sofia); Ceballos, 1959:229 (in supplement to catalog of Spanish Sphecidae); de Beaumont, 1959a:21 (Italy); Noskiewicz and Puławski, 1960:92 (in key to Polish Sphecidae, not yet found in Poland); Lehrer and Scutaru, 1963:286 (Romania: Moldova: Mircești in Iași District); de Beaumont, 1965a:36 (Greece); Scobiola-Palade, 1967b:48 (Romania); Romanova, 1969:134 (Russia: North Caucasus); Balthasar, 1972:309 (in Sphecid Fauna of Czechoslovakia); Kazenas, 1972b:152 (Kazakhstan); Diniz, 1973:45 (Portugal: Algarve: Bela Vista as *procustes*); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Kazenas, 1978b:75, 77 (in key to Sphecidae of Kazakhstan and Central Asia); Pulawski, 1978:202, 203 (in key to Sphecidae of European part of USSR); Benedek, 1979:230 (Hungary: Bakony Mountains); Pagliano, 1980:116 (Italy: Piemonte); Gayubo, 1982b:41 (Spain: Ávila, Cáceres, and Salamanca provinces); Dollfuss, 1983b:23 (Austria: Niederösterreich; not observed since 1882); Józan, 1985b:61 (Hungary south of Lake Balaton), 81 (floral records), 84 (ecological and zoogeographic characteristics); Gayubo, 1983e:234 (Spain: Salamanca Province), 1986d:119 (Spain: Zamora Province); Józan, 1986:373 (Hungary: Kiskunság National Park); Dollfuss, 1989:9 (type material in NHMW); Pádr *in* Šedivý, 1989a:167 (in checklist of Czechoslovakian Sphecidae); Gayubo, Asís, and Tormos, 1990b:78 (Spain: León Province); Nemkov, 1990b:680, 685 (in key to *Gorytes* of USSR), 689 (Russia: Kostroma, Vladimir, and Yaroslavl oblast's, Krasnodar Kray; Siberia: Chelabinsk Oblast'; Kazakhstan); Pagliano, 1990:71 (in catalog of Italian Sphecidae); Dollfuss, 1991:200 (in key to Sphecidae of North and Central Europe); Gayubo, Borsato, and Osella, 1991:414 (Italy: Veneto: Lovadina), 1992:287 (Greece: Tymphristos); Pagliano, 1992:37, 39 (in key to Italian Bembicinae); Negrisolo *in* Minelli, Ruffo, and La Posta, 1995b:4 (in catalog of Italian fauna); Minoranskiy and Shkuratov, 1996:81 (Russia: Rostov Oblast'); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:198 (in Sphecid Fauna of Western Europe); Gorobchishin, 1998a:50 (Ukraine: Kiev and surroundings); Esenbekova and Kazenas, 2000:61 (southeastern Kazakhstan: no specific locality); Józan, 2000:113 (Hungary: Bakony Mountains), 2001:281 (Hungary: Somogy County); Kazenas, 2001b:46 (in checklist of Sphecidae of Kazakhstan and Central Asia); Józan, 2002:54 (Hungary: Mecsek Mountains); Kazenas, 2002a:121 (geographic distribution, collecting localities in Kazakhstan); Schmid-Egger, 2002b:181 (in revision of western Palearctic *Gorytes*); Shkuratov, 2002b:139 (Russia: Rostov Oblast': Rostovskiy Nature Reserve at 46°27'N 42°41'E); Schmid-Egger, 2003:753 (Italy: Sicilia: Randazzo); Shkuratov, 2004a:75 (Russia: Rostov Oblast'), 2004b:165 (Russia: Rostov Oblast': Gosudarstvennyi Muzej-Zapovednik M.A. Sholokhova); Gayubo and Özbek, 2005:18 (Turkey: Erzurum: University campus); Jacobs, 2005a:446 (Bulgaria: Arkutino near Burgas); Pagliano and Negrisolo, 2005:144 (in Sphecid Fauna of Italy); Shoreko, 2005a:167 (Ukraine: Crimea), 2005b:97 (Ukraine: Crimea: Karadagh Nature Reserve); Straka, 2005a:394 (extinct in Czech Republic); Gorobchishin, 2006:141 (Ukraine: Kyiv); Józan, 2006:284 (Hungary: Balatonföldvár, Hetes, Kereki, Somogyeszti); Veprek and Straka, 2007:208 (in catalog of Sphecidae of Czech Republic and Slovakia, known from Moravia and Slovakia only); Yıldırım and Ljubomirov, 2007:117 (Turkey: Erzurum: University campus); Kazenas, 2008a:105 (southeastern Kazakhstan: near Alma Ata and Bartogay on Chilik River); Ljubomirov and Yıldırım, 2008:80 (in catalog of Crabronidae of Turkey); Baños-Picón, Asís, Gayubo, and Tormos, 2009:311 (Spain: frequency of specimens collected with hand nets and Malaise traps); Józan, 2009:166 (Croatia: Petehi); Pagliano, 2009:178 (Italy: Molise: Guardalfiera); Shoreko, 2009:368 (in list of Sphecidae *sensu lato* of Crimea); Baghirov, 2010:678 (Russia: Altai Territories: villages Chemal and Savvushka); Bitsch, 2010:112 (in supplement

to vol. II of Faune de France, 1997: first record from Sicily by Schmid-Egger, 2003 reported); Mokrousov, 2010a:61 (Russia: Kostroma and Yaroslavl' oblast's, Tatarstan: no specific localities), 2010b:100 (Russia: Tatarstan: no specific locality); Rudoiskatel', 2010:151 (Russia: recorded from Ural Mountains); Shorenko and Konovalov, 2010:15 (Ukraine: Khar'kov Oblast': Khar'kov; Lugansk Oblast': Trekhizbenka); van der Smissen, 2010b:384 (France: Ardèche: Saint-Morice-d'Ibie); Baghirov, 2011b:142 (Russia: Altayskiy Kray: Savvushka; Altay Republic: Chemal); Józan, 2011:183 (in checklist of Sphecidae *sensu lato* of Hungary); Mokrousov, Berezin, and Egorov, 2011d:240 (Russia: Chuvash Republic); Rudoiskatel', 2011a:66 (Russia: Perm Oblast': Okhansk), 2011d:240 (Russia: central Ural Mountains); Prisniy, 2012:51 (Russia: Belgorod Oblast'); Bitsch, 2014:398 (record from France by van der Smissen noted); Mokrousov and Vafin, 2014:55 (Russia: Republic of Tatarstan); Protsenko, Fateryga, and Ivanov, 2014:31 (Crimea: no specific locality); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); Shorenko, 2015:338 (in list of Sphecidae *sensu lato* of Crimea); Mokrousov and Popov, 2016:568 (Russia: Krasnodarskiy Kray); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces); Haris, 2016:21 (in list of species described by A. Handlirsch from Carpathian Basin); Nemkov, 2017a:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:223 (in catalog of Bembicinae of Russia); Shorenko, 2017:80 (in Crimea collected in June); Jacobs and Liebig, 2018:142 (Russia: Irkutsk Oblast': Bol'shoye Goloustnoye and Ust'-Ordynski steppe); Shorenko, 2018:129 (Crimea, including localities, habitats, and number of specimens); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:244 (in Sphecid Fauna of Europe); Shorenko, 2020:50 (Crimea: Karadag Nature Reserve); Cross, Baldock, and Wood, 2021:26 (in catalog of Sphecidae *sensu lato* of Portugal); Kaplan and Yıldırım, 2021:32 (in catalog of Crabronidae of Turkey); Mokrousov and Proshchalykin, 2021b:175, 177 (in key to Palearctic *Gorytes*); Kaplan and Yıldırım, 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey). – As *Hoplisus procrustes*: Noskiewicz, 1930:93 (new combination, Poland: Podole Region: Wołkowce near Mielnica, now Ukraine).

As *Gorytes quinquefasciatus*: A. Costa, 1869b:79 (in revision of Italian Sphecidae), corrected to *Gorytes procrustes* by Handlirsch, 1888b:490.

54. *prosopis* R. Bohart

Gorytes prosopis R. Bohart, 1971:449, ♀. Holotype: ♀, USA: California: Napa County: Samuel Springs, now bottom of Lake Berryessa (UCD). – R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1694 (in catalog of North American Hymenoptera).

55. *provancheri* Handlirsch

Gorytes laticinctus Provancher, 1888:274, ♀, junior secondary homonym of *Gorytes laticinctus* (Lepeletier, 1832). Holotype or syntypes: Canada: British Columbia: Vancouver (lost: Gahan and Rohwer, 1917:427). – Taylor, 1884:80 (Canada: British Columbia: Island of Vancouver, nomen nudum).

Gorytes provancheri Handlirsch, 1895:945 (as *Provancheri*, incorrect original capitalization). Substitute name for *Gorytes laticinctus* Provancher. – Handlirsch, 1895:945 (Provancher's original description translated into German); Dalla Torre, 1897:550 (in catalog of world Sphecidae); Maidl and Klima, 1939:102 (in catalog of world Astatinae and Bembicinae); Krombein in Muesebeck, Krombein, and Townes, 1951:991 (as synonym of *Gorytes angustus*); Horning and Barr, 1970:105 (USA: Idaho: Craters of the Moon National Monument); Evans, 1973c:149 (Wyoming: Jackson Hole); R. Bohart in R. Bohart and Menke, 1976:501 (resurrected from synonymy, in checklist of world Sphecidae); Krombein, 1979b:1694 (in catalog of North American Hymenoptera); Rust, Menke, and Miller, 1985:47 (California: Channel Islands); Ratzlaff, 2016:24 (Canada: British Columbia: after Provancher, 1888 and Krombein, 1979). – As *Hoplisus provancheri*: Ashmead, 1899d:328 (new combination, in checklist of North American Crabronidae).

56. *quadrifasciatus* (Fabricius)

Mellinus quadrifasciatus Fabricius, 1804:298, sex not stated (as *4.fasciatus*, incorrect original spelling). Holotype: ♂, Germany: no specific locality (ZMUC). – Panzer, 1805, Heft 98:17 (in revision of German insects). – As *Arpactus quadrifasciatus*: Panzer, 1806:166 (new combination, in critical review of his earlier work); Jurine, 1807:194 (in

checklist of species of *Arpactus*). – As *Hoplisus quadrifasciatus*: Dahlbom, 1843:159 (new combination, in revision of Sphecidae and Pompilidae), 1845:XXIII (study of type material), 482 (in key to European *Hoplisus*); Eversmann, 1849:393 (Russia: Kazan' and Orenburg provinces, also southern Ural Mountains); von Kiesenwetter, 1849:89 (Germany: Kingdom of Saxony); Wissmann, 1849:12 (Germany: Kingdom of Hannover: Hannover, Münden); Tischbein, 1850:8 (Germany: Rheinland-Pfalz: Herrstein in Fürstenthum Birkenfeld); F. Smith, 1851c:38 (Great Britain: Colney Hatch, Highgate); Wesmael, 1852:99 (Belgium); Kirschbaum, 1853:45 (Germany: Herzogtum Nassau: Mainz-Mombach, Weilburg, and Wiesbaden); Kawall, 1857:24 (Kurland, now Latvia, genus name misspelled *Hapliscus*); Ruthe and Stein, 1857:314 (Germany: Berlin area); Schenck, 1857:167 (Germany: in revision of fossorial wasps of Nassau Region); Taschenberg, 1858:89 (in key to Sphecidae of Germany); Assmus, 1859:611 (Russia: Moscow Governorate); Funk, 1859:59 (Germany: Bayern: Bamberg); Schenck, 1860:148 (Germany: Nassau Region); Brischke, 1862:101 (Germany: Preussen Province, now Poland: Pomorze Region); Taschenberg, 1866:195 (in revision of Hymenoptera of Germany); A. Costa, 1867c:66 (in revision of Italian Sphecidae); Kirchner, 1867:220 (in catalog of European Hymenoptera); Schenck, 1867a:355 (Germany: Nassau Region); Dietrich, 1868:363 (Switzerland: Zurich Canton); Jaennicke, 1868:9 (Germany: Hessen: Büdingen, as *quadrifasciatus*); Wierzejski, 1868:117 (Poland: Kraków, Tatry Mountains; Ukraine: Janów); A. Costa, 1869b:82 (in revision of Italian Sphecidae); von Aichinger, 1870:318 (Austria: Tirol); Thomson, 1870:245 (in revision of Swedish wasps); Dours, 1874:150 (in catalog of Hymenoptera of France); Thomson, 1874:233 (in revision of Hymenoptera of Scandinavia); Wierzejski, 1874:259 (same data as in 1868); Taschenberg, 1875:369 (Germany: Halle); Beuthin, 1876:231 (Germany: Hamburg area); Schlechtendal, 1876:54 (Germany: Sachsen: Zwickau); Girard, 1879:949 (recognition); E. Saunders, 1880:271 (in revision of British Aculeata); Siebke, 1880:65 (Norway, as *4-fasciatus*); Friese, 1883:202 (Germany: Thüringen: Gumperda); Kohl, 1883e:667 (Switzerland, as *4-fasciatus*); Sickmann, 1883:83 (Germany: Niedersachsen: Wellingholthausen); Wüstnei, 1886:41 (Germany: Schleswig-Holstein: Sonderburg); Brischke, 1888b:98 (Germany: Preussen Province, now Poland: Pomorze Region); Assmuss, 1892:52 (Russia: earlier record from Moscow Governorate repeated); Westerlund, 1893:26 (Russia: Karelian Republic: northern shore of Lake Ladoga); Baldini, 1894:67 (Italy: Modena area); Meunier, 1896:272 (Belgium: Bruxelles area, as *quadrifasciatus* Wesmael); Borries, 1897:64 (Denmark: flying in July and August); Lüderwaldt, 1897b:29 (Germany: Gollnow, now Poland: Pomorze Region: Goleniów); Flamary, 1898:45 (France: Saône-et-Loire: Mâcon area); Strand, 1898b:94 (Norway); Chyzer, 1902:34 (Hungary); von Heyden, 1905:81 (Germany: Hessen: Frankfurt); V. Clerc and M. Clerc, 1907:79 (Russia: Ekaterinburg district); de Gaulle, 1908:120 (in catalog of French Hymenoptera, as *4-fasciatus*); Cavro, 1910:685 (France: Département du Nord, as *4-fasciatus*); Schirmer, 1912:166 (Germany: Berlin area); Alflen, 1914:279 (northwestern Germany); Noskiewicz, 1920b:155 (Poland, now Ukraine: forest district Kopanki near Kalusz); A. Wagner, 1920:32 (Germany: Lower Elbe region); Hedicke, 1922:270 (Germany: Brandenburg: Gross Machnower Weinberg); Coulon, 1925:119 (France: Dijon, Rouen; Morocco: Tanger); Schütze, 1925:112 (Germany: Lausitz Region); Stelfox, 1927:305 (records from Ireland are erroneous), 1931:14 (Great Britain: Cambridgeshire); Bondroit, 1932:32 (Belgium: Solbosch), 1933:26 (Belgium: Uccle); Jansson, 1934:290 (Sweden); Richards, 1935a:168 (type, examined, corresponds to current species interpretation); Spooner, 1935:139 (Great Britain: Northamptonshire: Ashton Wold and Huntingdonshire: Wood Walton); Richards, 1937b:107 (in checklist of British aculeates); Guichard, 1938:72 (Britain: Norfolk coast); de Graham, 1941:99 (Great Britain: Lincolnshire); Hoop, 1941b:70 (Germany: Schleswig-Holstein: Süderhastedt); Schneid, 1941:1040 (Germany: Bayern: Bamberg area); J. Perkins, 1942:199 (Sweden: Skåne: Löderup, as *4-fasciatus*); Spooner, 1942:110 (Great Britain: Bedfordshire), 1943:74 (Great Britain: Hurne); Chambers, 1949:231 (Britain: Bedfordshire); Nouvel and Ribaut, 1953:178 (France: Haute-Garonne: Saint-Béat, Hautes-Pyrénées: Cauterets); Fahlander, 1954:251 (Sweden: Gästrikland Region); Wolf, 1968:11 (Germany: Nordrhein-Westfalen: Siegen, inhabitant of forest edge); Burn, 1975:144 (Great Britain: Yorkshire: Doncaster district). – As *Euspongus quadrifasciatus*: Herrich-Schaeffer, 1840:291 (new combination, Germany: Bayern: Regensburg area); Radoszkowski, 1892:582 (male genitalia). – As *Gorytes quadrifasciatus*: Spinola, 1806:93 (new combination; Italy: Liguria: near Arcata); Audouin, 1825:445 (in Dictionnaire classique d'histoire naturelle); Stephens, 1829:363

(in catalog of British insects), 1829b:33 (in checklist of British insects); Vander Linden, 1829:98 (bibliographic references, redescription, Belgium: Bruxelles, Germany, Italy); Shuckard, 1837a:215 (in revision of British Aculeata); von Siebold, 1844:132 (Germany: Preussen: vicinity of Danzig, now Poland: Gdańsk); F. Smith, 1853:65 (in checklist of British Hymenoptera), 1856:360 (in catalog of Hymenoptera in British Museum), 1858c:105 (in review of British Aculeata, redescription); Bold, 1870:147 (Great Britain: Northumberland and Durham); F. Smith, 1871b:11 (in catalog of British Aculeata); Kohl, 1880:171 (Austria: Tirol, and Italy: Trentino–Alto Adige); Handlirsch, 1888b:497 (in revision of world Bembicinae); Kohl, 1888b:727 (Austria: Tirol, now Italy: Alto Adige), 1893:27 (Austria: Niederösterreich); F. Morawitz, 1893a:112 (Russia: Karelian Isthmus); Sickmann, 1893:89 (Germany: Niedersachsen: Iburg); Krieger, 1894:8 (Germany: Kingdom of Saxony); Handlirsch, 1895:915 (additional bibliography; Mongolia); E. Saunders, 1896:107 (in revision of British Aculeata); Dalla Torre, 1897:551 (in catalog of world Sphecidae); Mocsáry, 1897:82 (Kingdom of Hungary, some localities are in today's Croatia, Romania, and Slovakia); Handlirsch, 1898b:488 (Algeria); de Cobelli, 1903:113 (Italy: Province of Trentino); Antiga and Bofill, 1904:15 (Spain: Cataluña Province); Aurivillius, 1904:270 (in revision of Swedish Sphecidae); W. Schulz, 1904b:97 (Czechoslovakia); Kubes, 1905:84 (Czech Republic: Babice); Mosolov, 1905b:19 (Russia: Moscow Governorate: Mikhailovskoye); Dusmet y Alonso, 1906:7 (Spain); Mercet, 1906a:133, 141 (in key to Spanish *Gorytes*, as *4-fasciatus*); Schmiedeknecht, 1907:219, 221 (in key to Hymenoptera of Central Europe); Morley, 1909:305 (Great Britain: Isle of Wight); Dittrich, 1911b:23 (Germany: Niederschlesien Province, now Poland: Dolny Śląsk Region); Graeffe, 1911:46 (Italy: Trieste area); Morley, 1911:24 (western Ireland: Glendaray); Zavattari, 1911:3 (Italy: Piemonte: Valle del Maira); Birula, 1914:385 (Belorussia: Ambrosovichi, Korolevo, and Luskinopol' near Vitebsk); Haines, 1914:129 (Great Britain: Dorset); Dusmet, 1915:88 (Spain: Aragón); O. Meyer, 1919:153 (Germany: Posen Province, now Poland: Poznań Region); Dubois, 1922:201, 202, 203 (in key to Belgian Sphecidae); Fahringer, 1922:180 (Turkey); Berland, 1925d:88 (in Sphecid Fauna of France); K. Strohm, 1925:211 (Germany: Baden-Württemberg: Grifheim); Bouwman, 1926:280 (in list of Sphecidae of Netherlands); Friese, 1926:160 (in key to Sphecidae of Central Europe, short morphological and biological characteristics); Bouwman, 1927:55 (in revision of Sphecidae of Netherlands); Benoist, 1928:409 (France: Alpes-Maritimes, Basses-Alpes, Hautes-Alpes); Schmiedeknecht, 1930:681, 683 (in key to Hymenoptera of North and Central Europe); Pulkkinen, 1931:62 (in revision of Sphecidae of Finland); Chambers, 1933:188 (Britain: Bedfordshire); Balles, 1934:19 (Germany: Baden-Württemberg: eight localities); Forsius *in* Forsius and Hellén, 1935:11 (in checklist of Hymenoptera of Finland); Crèvecœur and Maréchal, 1936:253 (in catalog of Belgian Hymenoptera); Drogoszewski, 1936:129 (Poland: Łowicz, as *4-fasciatus*); Zavadil, Šustera, and Bat'a, 1937:190 (in catalog of Sphecidae of Czechoslovakia); Móczár, 1938c:81 (Hungary: Kőszeg Hills); Redikortsev, 1938:144 (Russia: Mordovian State Nature Reserve); A. Wagner, 1938a:121 (northwestern Germany); Maidl and Klíma, 1939:70 (in catalog of world Astatinae and Bembicinae); Maréchal, 1939:341 (Belgium: Loën); Balthasar, 1941b:112 (Czech Republic: eastern Moravia); Paul, 1941:44 (Germany: Pommern: Stettin area, now Poland: Województwo Zachodniopomorskie: Szczecin area); Balthasar, 1943:41 (Czech Republic: Moravia: Zlin area); Benno, 1943:66 (Netherlands); Giner Marí, 1943a:178 (in Sphecid Fauna of Spain); Guiglia, 1944b:20 (Italy); Carl and de Beaumont, 1947:68 (Switzerland: Graubünden = Grisons Canton: Swiss National Park); Šnoflák *in* Zavadil and Šnoflák, 1948:73, 74 (in key to Sphecidae of Czechoslovakia); Aerts, 1950b:23 (Germany: Rheinland-Pfalz: Lorelei); Cavro, 1950:34 (France: Département du Nord); Georgel, 1950:64 (France: Seine-et-Oise: Sucy-en-Brie); de Beaumont, 1951g:312 (Italy), 1951h:33 (Switzerland: Neuchâtel area), 1953f:171 (in revision of western Palearctic *Gorytes*), 1954e:89 (Italy); Grandi, 1954:233 (Italy); Kjellander, 1954b:247 (Sweden); Aerts, 1955:62 (Germany: Rheinland); Steiner, 1955:145 (France: Dordogne); Vergne, 1955:4 (France: Auvergne); Vogrin, 1955:35 (Yugoslavia); Ceballos, 1956:384 (in catalog of Hymenoptera of Spain); Bajári, 1957a:106, 109 (in key to Hungarian Sphecidae); Zirngiebl, 1957:181 (Germany: Rheinland-Pfalz: Pfalz region); Benno, 1958b:11 (in review of Dutch Sphecidae); de Beaumont, 1958c:204 (Swiss National Park); Ceballos, 1959:229 (in supplement to catalog of Spanish Sphecidae); de Beaumont, 1959a:21 (Italy); Grandi, 1959b:286 (Italy: Trento: Brusago); Wolf, 1959b:30 (Germany: Nassau); Noskiewicz and Puławski, 1960:91,

94 (in key to Polish Sphecidae); Hoop, 1961:65 (Germany: Schleswig-Holstein: Hemmelmark, Kiel-Eichhof, Steinfurth); van der Vecht, 1961a:48 (study of type); Grandi, 1962:98 (Italy; as *quattuorfasciatus*); Valkeila, 1962b:67 (southwestern Finland); Lehrer and Scutaru, 1963:286 (Romania: Moldova: Mirceşti in Iaşi District); Tsuneki, 1963a:3, 6 (in key to Gorytini of Japan and Korea), 15 (in revision of Gorytini of Japan and Korea; Korea); Valkeila, Brander, and Käpylä, 1963:41 (Finland: historical region Lounais-Hämeen = southwest Häme); Babiy, 1964:117 (Austria: Land Salzburg); de Beaumont, 1964c:48 (in Sphecid Fauna of Switzerland); Plavil'shchikov, 1964:122 (Russia: Mordovian State Nature Reserve); Valkeila, Brander, and Käpylä, 1964:75 (Finland: Southern Finland: Forssa); Fæster, 1965:193 (Denmark: Hansted Nature Reserve); B. Klug, 1965:136 (Germany: Baden-Württemberg: Freiburg im Breisgau area); Roberti, Frilli, and Pizzaghi, 1965:109 (Italy: Emilia-Romagna: Piacenza); Tsuneki, 1965c:31, 32 (in key to Bembicinae of Japan and Korea); Bonelli, 1966c:216 (Italy: Trentino-Alto Adige: Brusago, Cavalese, Dolomiti); Benno, 1967:34 (in checklist of Sphecidae of Netherlands); Gauss, 1967:552 (Germany: Baden-Württemberg); J. Heinrich, 1967:71 (Germany: Bayern: Unterfranken District); Niedl and Deneš, 1967:82 (Czech Republic: Třeboň area); Scobiola-Palade, 1967b:48 (Romania); Benedek, 1968:72 (Hungary, visiting flowers of *Pastinaca sativa* L., Apiaceae); Benedek, 1969a:83 (Hungary; marshy meadow); Lefeber, 1969c:233 (Netherlands: Sint-Pietersberg = Montagne Saint Pierre); Petit, 1969:72 (Belgium: Val du Rabey); Benedek, 1970:97 (Hungary: Tapolca); Oehlke, 1970:689 (Democratic Germany); Tumšs, 1970:78 (Latvia); Lefeber, 1971b:222 (Belgium: Kinrooi); Schmidt, 1971b:27 (Germany: Mainz area); Balthasar, 1972:315 (in Sphecid Fauna of Czechoslovakia); Haeseler, 1972:155, 175 (Germany: Schleswig-Holstein; anthropogenic habitats); Kofler, 1972:106 (Austria: eastern Tirol); Lomholdt, 1972:122 (Denmark: Læsø Island); Niedl and Deneš, 1972:153 (Czech Republic: Třeboň area); Oehlke, 1972:136 (Germany: Island of Hiddensee); Scobiola-Palade, 1972b:252 (Romania); Erlandsson, 1974:64 (Italy); Simon Thomas and Veenendaal, 1974b:4 (France: Gironde: Andernos-les-Bains); Lomholdt, 1975c:197 (in Sphecid Fauna of Fennoscandia and Denmark); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Haeseler, 1976b:72 (Germany: Friesian Islands: Island of Amrum); Merisuo, 1976b:212 (male specimen with 12 flagellomeres); Guichard, 1977:254 (Great Britain: Surrey); Kolesnikov, 1977:317 (Russia: Bryansk Oblast'); Schmidt, 1977:96 (Germany: Baden-Württemberg: Enzklösterle in Schwarzwald); Haeseler, 1978b:62 (Germany: Niedersachsen: a bog near Oldenburg); Kazenas, 1978b:75, 76 (in key to Sphecidae of Kazakhstan and Central Asia); Marion, 1978:87 (France: Nièvre Department); Pulawski, 1978:202, 204 (in key to Sphecidae of European part of USSR); Schwammberger, 1978:417 (Germany: Württemberg); Benedek, 1979:230 (Hungary: Bakony Mountains); Lefeber, 1979:11 (in checklist of Sphecidae of Netherlands), 42 (Netherlands: distribution map); Schmidt, 1979a:54 (Germany: Ost-Holstein), 1979b:349 (Germany: Baden-Württemberg); Kazenas, 1980e:83 (Russia: Far East); Mityaev, Matesova, Kulenova, Kazenas, and Zhdanko, 1980:119 (Russia: Siberia: Altayskiy Kray: basin of Aley River); Pagliano, 1980:116 (Italy: Piemonte); Richards, 1980:81 (in key to Sphecidae of British Isles); Westrich, 1980:629 (record by Schmidt, 1966 from Germany: Baden-Württemberg: Tübingen area, actually refers to *Gorytes laticinctus*); Dollfuss and Ressl, 1981:324 (Austria: Niederösterreich: Scheibbs District); Haeseler, 1981:51 (Germany: Friesian Island: Island of Amrum); Woydak, 1981:40 (Germany: Westfalen: Hamm); Axelsson, 1982:79 (Sweden); Donath, 1982:212 (Germany: Cottbus Bezirk); Gayubo, 1982b:42 (Spain: Salamanca Province); Skibińska, 1982:123 (Poland: Warszawa area); Tsuneki, 1982b:18 (known from Korea); Dollfuss, 1983b:23 (Austria); Gayubo, 1983e:234 (Spain: Salamanca Province); Riemann, 1983:83 (Germany: Bremen-Daverden area); Haack, Tscharntke, and Vidal, 1984:129 (Germany: Hamburg area); Sagvolden, 1984:19 (Norway: Buskerud: Rollag); Haeseler, 1985c:571 (Germany: Friesian Islands); Józan, 1985b:61 (Hungary south of Lake Balaton), 71 (map of distribution in Hungary), 81 (floral records), 84 (ecological and zoogeographic characteristics); Lefeber, 1985:87 (Netherlands: southern Limburg); Nilsson, 1985:43 (Sweden); Paik, 1985:202 (in list of Sphecidae of Korea); Radović, 1985:65 (sting apparatus analyzed); Scobiola-Palade, 1985:97 (Romania: delta of Danube); Gayubo and Sanza, 1986:77 (Spain: Burgos, Segovia); Józan, 1986:374 (Hungary: Kiskunság National Park); Nemkov, 1986:108 (Russia: Siberia: Irkutsk Oblast'); Skibińska, 1986b:168 (Poland: Warszawa: green areas of housing estates), 174 (various green urban habitats); Vikberg, 1986:78 (Finland); Haeseler, 1988:211 (Germany: Friesian Islands); Kowalczyk, 1988a:45 (Poland: Rogów), 1988b:64 (Poland: environs

of Łódź); Wolf, 1988b:141 (Germany: Rheinland-Westfalen); Jacobs, 1989:27 (Germany: Mecklenburg-Vorpommern); Nemkov, 1989:68, 70, 71 (in key to *Gorytes* of Siberia and Russian Far East); Nilssen, 1989:47 (Sweden); Pádr *in Šedivy*, 1989a:167 (in checklist of Czechoslovakian Sphecidae); Gayubo, Asís, and Tormos, 1990b:78 (Spain: Province); Jacobs and Oehlke, 1990:212 (new records from Democratic Germany); Kowalczyk, 1990:291 (Poland: Góry Świętokrzyskie); Kuznetzova, 1990:19 (Russia: Voronezh Oblast': Galich'ya Gora Nature Reserve); Nemkov, 1990b:682, 685 (in key to *Gorytes* of USSR); Pádr, 1990:71 (Czech Republic: Praha area); Pagliano, 1990:71 (in catalog of Italian Sphecidae); Schwammberger and Priesner, 1990:552 (Austria: Kärttnen); Dollfuss, 1991:200 (in key to Sphecidae of North and Central Europe); Gayubo, Borsato, and Osella, 1991:414 (Italy); Kowalczyk, 1991a:89, 97, 100, 101 (Poland: Łódź), 1991b:120 (Poland: Augustów Forest); Archer, 1992b:21 (Great Britain: Yorkshire: Skipwith Common); Budrys, 1992:27 (in list of Sphecidae of Lithuania); Delarze, 1992:68 (Switzerland: Valais: Les Follatères); Józan, 1992b:176 (Hungary: Boronka-melléki Protected Area), 1992c:290 (Hungary: Zselic Hills); Nemkov, 1992b:250 (Russia: Far East: Natalino near Khingan Nature Reserve); Pagliano, 1992:37, 39 (in key to Italian Bembicinae); K. Weber, 1992:87 (Germany: Bayern: Bamberg District); Archer, 1993d:129 (Great Britain: Lincolnshire: Risby Warren 3 km northeast of Scunthorpe); Kuhlmann, 1993:75 (Germany: known from Westfalen); Wiśniowski, 1993a:98 (Poland: in checklist of Sphecidae of Białowieża Primeval Forest); Blagoveshchenskaya, 1994:91 (Russia: Ul'yanovsk Oblast'); Gayubo and Borsato, 1994:217 (Italy: Veneto); Kowalczyk, 1994:73 (Poland: Łagiewniki forest in Łódź); Theunert, 1994c:41 (Germany: summary of records from Niedersachsen and Bremen); Archer, 1995a:23 (Great Britain: Yorkshire: frequency); Archer and Burn, 1995:59 (Great Britain: Yorkshire: Crow Wood near Finningley); Jansen and Kaluza, 1995:7 (Germany: endangered in Sachsen); Józan, 1995:105 (Hungary: projected Duna-Dráva National Park); Kazenas and Esenbekova, 1995:80 (Kazakhstan; bibliographic reference to leafhopper prey); Negrisolo *in* Minelli, Ruffo, and La Posta, 1995b:4 (in catalog of Italian fauna); Nemkov *in* Nemkov, Kazenas, Budrys, et Antropov, 1995:461, 464 (in key to Sphecidae of Russian Far East); Schmid-Egger, Risch, and Niehuis, 1995:185 (Germany: summary of records from Rheinland-Pfalz); Wolf, 1995:16 (Germany: Rheinland-Pfalz: near Lorelei Rock on Rhein River); Yeo and Corbet, 1995:41 (in field guide to British solitary wasps); Archer, 1996b:37 (Great Britain: Nottinghamshire: Sherwood Forest); Doronin, 1996:18 (Latvia: Sigulda, nest parasitized by *Euchrum roseum* Rossi., a chrysidid); Fowles, 1996:36 (Great Britain: in checklist of aculeates of Wales); Harvey and Plant, 1996:80 (Great Britain: summary of records from Essex); Jakubzik, 1996:252 (Germany: Köln); Schmid-Egger, Schmidt, and Doczkal, 1996:377 (Germany: Baden-Württemberg: endangered); Voblenko, Gorobchishin, and Nesterov, 1996:15 (Ukraine: Polesye Region); Witt, 1996:106 (Germany: Brandenburg); Woydak, 1996:95 (Germany: Westfalen: summary of distribution and nesting behavior); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:199 (in Sphecid Fauna of Western Europe); Celary, 1997:60 (in checklist of Animals of Poland); Lauterbach, 1997c:85 (Germany: Nordrhein-Westfalen: Bielefeld); Pagliano and Alma, 1997:178 (known prey listed); Riemann, 1997:49 (Germany: Achim 14 km southeast of Bremen); Schmidt and Schmid-Egger, 1997:15 (in checklist of German Sphecidae); Shlyakhtenok, Blinov, and Belyavskaya, 1997:151 (Belorussia: Pripyatskiy National Park); Archer, 1998b:158 (Great Britain: Lincolnshire: Gibraltar Point National Nature Reserve); F. Burger, Saure, and Oehlke, 1998:28 (Germany: in list of Sphecidae of Brandenburg); Dollfuss, Gusenleitner, and Bregant, 1998:523 (Austria: summary of collecting records from Burgenland); Flügel, 1998:60 (Germany: Brandenburg: Unteres Odertal National Park); Gorobchishin, 1998a:50 (Ukraine: Kiev and surroundings, as *quadrifasciatus*); Józan, 1998:312 (Hungary: Duna-Dráva National Park); Lefeber, 1998:182 (Netherlands: Limburg: Sint-Pietersberg near Maastricht at 50°50'N 5°41'E); Salzmann-Wandeler, 1998b:102 (Switzerland: Schwyz Canton: Gersau-Oberholz); M. Schwarz, 1999:88 (Austria: Oberösterreich: city of Linz area); van der Smissen, 1998:60 (Germany: Niedersachsen, Schleswig-Holstein); K. Weber, 1998:140 (Germany: Bayern: Bamberg area); W. Klein, 1999:22 (in improved key to male *Gorytes* of Benelux); Kuhlmann, Wolf, and Woydak, 1999:569 (Germany: threatened with extinction in Nordrhein-Westfalen); Mandery, 1999:105 (Germany: Bayern: Coburg area); Neumayer, Schwarz, and Bregant, 1999:224 (Austria: in checklist of Sphecidae of Land Kärnten); Pauly, 1999:111 (in catalog of Belgian aculeates); Skibińska, 1999:96 (in

Białowieża Primeval Forest, Poland, not recorded since Bischoff, 1925); Archer, 2000c:115 (Great Britain: Lincolnshire); Blösch, 2000:384 (in Sphecid Fauna of Germany); Esenbekova and Kazenas, 2000:61 (southeastern Kazakhstan: 2–8 km south of Alma Ata); Gibbs, 2000:13 (Great Britain: Bristol: Troopers Hill); Jacobs, 2000:7 (Germany: Land Mecklenburg-Vorpommern: not endangered); Józan, 2000:113 (Hungary: Bakony Mountains); Mokrousov, 2000b:31 (Russia: Nizhniy Novgorod Oblast'); Wiśniowski, 2000:162 (Poland: Bieszczady Mountains); Dillier and Neumeyer, 2001:29, 33 (Switzerland: delta of Reuss River on Lake Uri); Edwards and Telfer, 2001:82 (Great Britain: distribution, status, habitat, flight period, prey, nesting habits, flower visiting, parasites, and distribution map); Haeseler, 2001:266 (Germany: Niedersachsen: Brookdeich near Oldenburg); Józan, 2001:281 (Hungary: Somogy County); Kazenas, 2001b:46 (in checklist of Sphecidae of Kazakhstan and Central Asia), 223 (review of known biology); Kazenas and Esenbekova, 2001:135 (Kazakhstan: Almatinskiy Nature Reserve); Mazzucco, 2001:203 (Austria: Niederösterreich: Steinfeld); Ohl et al., 2001:139 (distribution in Germany by provinces); Skibińska, 2001:220 (Poland: Białowieża Primeval Forest); van der Smissen, 2001:61 (Germany: Schleswig-Holstein: not endangered); Wolf, 2001a:171 (Germany: Bayern: Lech valley from Augsburg to Donau); Zettel, Gross, and Mazzucco, 2001:80 (Austria: Wien, not collected since 1886); Archer, 2002b:128 (Great Britain: Watsonian Yorkshire: distribution map); Archer and Edwards, 2002:103 (Great Britain: West Sussex: Ambersham and Iping commons); Józan, 2002:54 (Hungary: Mecsek Mountains); Kazenas, 2002a:121 (geographic distribution, collecting localities in Kazakhstan); Kowalczyk, Szczepko, and Świątek, 2002:155 (Poland: Kampinos National Park near Warszawa); C. 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area in Haff Réimech Nature Reserve); Gorobchishin, 2006:140 (Ukraine: Cherkasy Oblast': Kaniv Nature Reserve; Kyiv Oblast': village Kruglyk); Nemkov, 2006b:169 (Russia: Primorskiy Kray: Kedrovaya Pad' Nature Reserve); K. Standfuss and L. 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Frommer, 2009a:27 (Germany: in checklist of Sphecidae of Hessen); Kowalczyk, Kurzac, and Nadolski, 2009:62 (Poland: between Warta and Widawka rivers); Nemkov, 2009b:136 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2009c:238 (Russia: Primorskiy Kray: Lazovsky Nature Reserve); Ødegaard, Sverdrup-Thygeson, Hansen, Hanssen, and Öberg, 2009:71 (Norway: locality records); Ruchin, Antropov, and Shibayev, 2009:170 (Russia: Republic of Mordovia); Bitsch, 2010:113 (in supplement to vol. 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Lorch); Hellqvist, Abenius, and Norén, 2014:90 (in catalog of Ampulicidae, Sphecidae, and Crabronidae of Sweden, by provinces); Jakovlev, Polevoi, and Humala, 2014:302 (Russia: Republic of Karelia: Zaonezhye Peninsula in Lake Onega); J.-K. Kim, 2014:422 (in catalog of Sphecidae *sensu lato* of Korean Peninsula); Mokrousov and Vafin, 2014:55 (Russia: Republic of Tatarstan); Ruchin and Antropov, 2014:37 (Russia: Republic of Mordovia); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey, as *quadrifasciatus*); P. Rosa and Pagliano, 2015:101 (Italy: Lombardia and Piemonte: Parco del Ticino); Shorenko, 2015:338 (in list of Sphecidae *sensu lato* of Crimea); Mokrousov and Popov, 2016:568 (Russia: Krasnodarskiy Kray); Stolle and Saure, 2016:923 (Germany: in list of Sphecidae *sensu lato* of Sachsen-Anhalt); Wiśniowski, 2016:128 (Poland: Ojców National Park); Yıldırım, Ljubomirov, Özbeş, and Yüksel, 2016:14 (Turkey: Erzurum Province: several localities); Durand and Burguet, 2017:2 (France: Puy-de-Dôme: Réserve Naturelle Nationale Chastreix-Sancy); Magdalou, 2017:15 (France: Pyrénées-Orientales: Réserves Naturelles Catalanes: Vallée d'Eyne); Nemkov, 2017a:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:223 (in catalog of Bembicinae of Russia); Jacobs and Liebig, 2018:142 (Russia: Irkutsk Oblast': Sarma and Ust'-Ordynski steppe); Shorenko, 2018:129 (Crimea, including localities, habitats, and number of specimens); Carminati, Mora, and Cretin, 2019:10 (France: in list of Sphecidae *sensu lato* of Franche-Comté); Olszewski and Kowalczyk, 2019:100 (northern Poland: Pomorze Gdańskie = Gdańsk Pomerania); Ruchin and Antropov, 2019a:13222 (Russia: Mordovia State Nature Reserve), 2019b:163 (common in Mordovian State Nature Reserve); Shorenko, 2019:211 (rare in Crimea); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:245 (in Sphecid Fauna of Europe); Kejval, Blažej, and Erhart, 2020:92 (western Czech Republic); Kaplan and Yıldırım, 2021:32 (in catalog of Crabronidae of Turkey); Mokrousov and Proshchalykin, 2021b:175, 177 (in key to Palearctic *Gorytes*); Olszewski, Wiśniowski, and Ljubomirov, 2021:90 (in commented list of Sphecidae *sensu lato* of Poland); Kaplan and Yıldırım, 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

Euspongus vicinus Lepeletier de Saint Fargeau, 1832:68, ♀, ♂ (as *Vicinus*, incorrect original capitalization). Holotype: ♀, France: Paris area (M. Spinola collection, Torino). Synonymized with *Mellinus quadrifasciatus* by Wesmael, 1839:78. – Lepeletier de Saint Fargeau, 1845:69 (in revision of world Hymenoptera); Acloque, 1897:83 (in Sphecid Fauna of France and Algeria). – As *Hoplisus vicinus*: Bradley, 1957:49 (new combination, Lepeletier's specimens in M. Spinola collection, Turin); Casolari and Casolari Moreno, 1980:121 (specimens in M. Spinola collection, Torino); Pagliano, 2014:89 (specimens in M. Spinola collection, Torino, are *Gorytes quadrifasciatus*, *Gorytes quinquecinctus*, *Gorytes sulcifrons*, and *Argogorytes* sp.).

Hoplisus montivagus Mocsáry, 1878:250, ♂. Holotype or syntypes: ♂, Hungary: Liptó or Zolyón Comitat: Korytniczá; now Slovakia: Korytnica 21 km north-northeast of Banská Bystrica (TMB). Synonymized with *Gorytes quadrifasciatus* by Handlirsch, 1888b:468. – Haris, 2016:16 (in list of species described by S. Mocsáry from Carpathian Basin). – As *Gorytes quadrifasciatus* var. *montivagus*: Mocsáry, 1897:82 (new combination, new status, Kingdom of Hungary: Körötnicza, now Slovakia: Korytnica).

As *Gorytes quatuor fasciatus* Panzer: Dufour, 1841a:507 and 1841b:243 (digestive tract), 1841a:508 and 1841b:244 (male reproductive system), 1841a:509 and 1841b:245 (female reproductive system).

As *Gorytes albidulus* (partim): Yıldırım and Ljubomirov, 2005:1791 (Turkey: Artvin and Erzurum Provinces), corrected to *Gorytes quadrifasciatus* by Nemkov in Yıldırım and Ljubomirov, 2007:117.

57. *quinquecinctus* (Fabricius)

Mellinus quinquecinctus Fabricius, 1793:287, ♀ (as *5.cinctus*, incorrect original spelling). Lectotype: ♀, northern Europe: no specific locality (ZMUC), designated by de Beaumont, 1953f:178. – Fabricius, 1796:98 (in Index to his Entomologia Systematica, 1793); Panzer, 1799, Heft 72:14 (in revision of German insects, illustration of habitus); Fabricius, 1804:299 (redescription, northern Europe); Peets, 1909-1911:67 (*Mellinus quinquecinctus* of Panzer = *Gorytes quinquecinctus*). – As *Ceropales quinquecinctus*: Latreille, 1804:54 (new combination). – As *Arpactus quinquecinctus*: Panzer, 1806:166 (new combination, in critical review of his earlier work); Jurine, 1807:194 (in

checklist of species of *Arpactus*). — As *Larra quinquecincta*: Lamarck, 1817:118 (new combination). — As *Hoplisus quinquecinctus*: Lepeletier de Saint Fargeau, 1832:61 (new combination, in revision of Gorytini of western Europe); Dahlbom, 1843:162 (in revision of Sphecidae and Pompilidae), 1845:XXIII (study of type material), 482 (in key to European *Hoplisus*); Wesmael, 1839:77 (comments on Lepeletier's interpretation); Herrich-Schaeffer, 1840:291 (Germany: Bayern: Regensburg area); Lepeletier de Saint Fargeau, 1845:60 (in revision of world Hymenoptera); Wissmann, 1849:12 (Germany: Kingdom of Hannover: Regenstein in Harz Mountains); Wesmael, 1852:102 (Belgium); Ruthe and Stein, 1857:314 (Germany: Berlin area); Schenck, 1857:170 (in revision of fossorial wasps of Nassau Region, Germany); A. Costa, 1858:20 (Italy: Campania: Monti Partenii in Benevento Region); Taschenberg, 1858:89 (in key to Sphecidae of Germany); A. Costa, 1859:33 (Italy: in revision of Sphecidae of Kingdom of Naples); Funk, 1859:59 (Germany: Bayern: Bamberg); Schenck, 1860:148 (Germany: Nassau Region), 1861:142 (Germany: Hessen: Weilburg); Brischke, 1862:101 (Germany: Preussen Province, now Poland: Pomorze Region); A. Costa, 1863:66 (Italy: Calabria Ultereiore: no specific locality); Taschenberg, 1866:195 (in revision of Hymenoptera of Germany); A. Costa, 1867a:23 (Italy: Campania: Montagne di Cava), 1867c:63 (in revision of Italian Sphecidae); Kirchner, 1867:220 (in catalog of European Hymenoptera); Schenck, 1867a:355 (Germany: Nassau Region); Dietrich, 1868:364 (Switzerland: Zurich Canton); nec Wierzejski, 1868:117 (= ? *Hoplisoides punctuosus*); A. Costa, 1869b:82 (in revision of Italian Sphecidae); nec A. Costa, 1869b:79 (= *Gorytes procrustes*); Palma, 1869:40 (Italy: Sicilia settentrionale); von Aichinger, 1870:318 (Austria: Tirol); Thomson, 1870:246 (in revision of Swedish wasps); Schlechtendal, 1872:37 (Germany: Zwickau); Dours, 1874:150 (in catalog of Hymenoptera of France); Mocsáry, 1874:120 (Siebenbürgen, now Romania: Transylvania: no specific locality); Thomson, 1874:236 (in revision of Hymenoptera of Scandinavia); Wierzejski, 1874:259 (Ukraine: L'viv, Sinków, now Sinkiv, Warwaryńce in Trembovla District, now Terebovljat); Marquet, 1875:209 (France: Haute-Garonne: Toulouse); Taschenberg, 1875:369 (Germany: Halle); Beuthin, 1876:231 (Germany: Hamburg area); Schmiedeknecht, 1876:186 (Germany: Thüringen: Rothensteiner Felsen); Radoszkowski, 1877:41 (Uzbekistan); Marquet, 1881:182 (southern France); Yaroshevskiy, 1881:126 (Ukraine: Khar'kiv Oblast': Khar'kiv); Friese, 1883:202 (Germany: Sachsen-Anhalt: Weissenfels); Kohl, 1883e:667 (Switzerland, as 5-cinctus); Sickmann, 1883:84 (Germany: Niedersachsen: Wellingholthausen); von Heyden, 1884:118 (Germany: Frankfurt am Main); Brischke, 1888b:98 (Germany: Preussen Province, now Poland: Pomorze Region); Radoszkowski, 1892:582 (male genitalia); Baldini, 1894:66 (Italy: Modena area); De Stefani Perez, 1895:228 (in catalog of Sicilian Hymenoptera); Meunier, 1896:272 (Belgium: Bruxelles area, as *quinquecinctus* Wesmael); Acloque, 1897:83 (in Sphecid Fauna of France and Algeria); Lüderwaldt, 1897b:28 (Germany: Gollnow, now Poland: Pomorze Region: Goleniów); Flamary, 1898:45 (France: Saône-et-Loire: Mâcon area); Lange, 1898:70 (Germany: Sachsen: Annaberg-Buchholz); N. Arnold, 1902:89 (Russia: Mohilev Province, now Belorussia); de Gaulle, 1908:120 (in catalog of French Hymenoptera, as 5-cinctus); Cavro, 1910:685 (France: Département du Nord, as 5-cinctus); Schirmer, 1912:166 (Germany: Berlin area); J.Ch Bradley, 1919a:62 (*Gorytes quinquecinctus* is type species of *Gorytes*, 63 (*Hoplisus* has the same type species, *Gorytes quinquecinctus*, as *Gorytes* and is therefore objective junior synonym), 63 (*Gorytes quinquecinctus* is the type species of *Ceropales* Latreille, 1796); Dubois, 1919:96 (Belgium: Bruxelles: Uccle); A. Wagner, 1920:33 (Germany: Lower Elbe region, not found but can be expected); Hedicke, 1922:270 (Germany: Brandenburg: Gross Machnower Weinberg); Coulon, 1925:119 (France, Spain); Schütze, 1925:112 (Germany: Lausitz Region); Shestakov, 1925:36 (Russia: Yaroslavl' area); Hémon, 1926:199 (France: Finistère: Fouesnant); Bondroit, 1932:32 (Belgium: Solbosch, Uccle), 1933:26 (Belgium: Bruxelles); Jansson, 1934:290 (Sweden); Marchand and Dulac, 1935:61 (France: Saône-et-Loire: Saint Laurent d'Andenay); Schneid, 1941:1041 (Germany: Bayern: Bamberg area); Niesiolowski, 1950:225 (Poland: Lubasz 40 km north of Tarnów); Szulczewski, 1950:107 (Poland: Wielkopolski National Park 15 km south of Poznań); Glowacki, 1953:519 (Poland: Podkowa Leśna); Nouvel and Ribaut, 1953:178 (France: Hautes-Pyrénées: Cauterets); Bradley, 1957:48 (Lepeletier's specimens in Turin); Hamann, 1960:195 (Austria: Niederösterreich: Mönchgraben at 48°13'N 14°21'E); Casolari and Casolari Moreno, 1980:121 (specimens in M. Spinola

collection, Torino, as *5-cinctus*); Pagliano, 2014:86 (specimens in M. Spinola collection, Torino, are *Gorytes quinquecinctus*, *Gorytes quinquefasciatus*, and *Gorytes sulcifrons*), 87 (specimens in M. Spinola collection, Torino, are *Gorytes quinquecinctus* and *Gorytes sulcifrons*). – As *Gorytes quinquecinctus*: Latreille, 1809:89 (new combination); Audouin, 1825:445 (in Dictionnaire classique d'histoire naturelle); nec Stephens, 1829:363 (in catalog of British insects) and 1829b:33 (in checklist of British insects) = *Argogorytes fargeii*; Vander Linden, 1829:101 (bibliographic references, redescription, Belgium: Bruxelles, Italy); F. Smith, 1856:361 (in catalog of Hymenoptera in British Museum); Girard, 1879:948 (recognition); Kohl, 1880:172 (Austria: Tirol, and Italy: Trentino—Alto Adige); Handlirsch, 1888b:495 (in revision of world Bembicinae); Kohl, 1888b:727 (Austria: Tirol, now Italy: Alto Adige); A. Costa, 1893b:8 (Tunisia); Kohl, 1893a:27 (Austria: Niederösterreich); F. Morawitz, 1893a:112 (Russia: Karelian Isthmus); Sickmann, 1893:89 (Germany: Niedersachsen: Iburg); Krieger, 1894:8 (Germany: Kingdom of Saxony); Schletterer, 1894:32 (Istria Peninsula, now part of Croatia, Slovenia, and Italy); Handlirsch, 1895:922 (additional bibliography); Westerlund, 1896:28 (Finland: no specific locality, as *5-cinctus*); Dalla Torre, 1897:552 (in catalog of world Sphecidae); Mocsáry, 1897:82 (Kingdom of Hungary: in all parts, some localities are in today's Croatia, Romania, and Slovakia); Handlirsch, 1898b:489 (Algeria); de Cobelli, 1903:113 (Italy: Province of Trentino); Antiga and Bofill, 1904:17 (Spain: Cataluña Province); Aurivillius, 1904:270 (in revision of Swedish Sphecidae); W. Schulz, 1904b:97 (Czechoslovakia, France, Switzerland); Kubes, 1905:84 (Czech Republic: Sušice); Mosolov, 1905a:28 and 1905b:19 (Russia: Moscow Governorate: Mikhailovskoye); Vágel, 1905:167 (Hungary); Mercet, 1906a:137, 141 (in key to Spanish *Gorytes*, as *5-cinctus*); Móczár and Henter, 1907:206 (Hungary: Hatvan, Királydaróc, Putnok); Schmiedeknecht, 1907:220, 222 (in key to Hymenoptera of Central Europe); Dittrich, 1911b:23 (Germany: Niederschlesien Province, now Poland: Dolny Śląsk Region); Graeffe, 1911:46 (Italy: Trieste area); Birula, 1912:540 (Ukraine: Zhytomyr Oblast': Radomyshl'); Birula, 1914:385 (Ambrosovichi, Korolevo, and Luskinopol' near Vitebsk); Szilády, 1914:89 (Hungary: Bólya, Fugad, Gyilkos-tó, Igenpatak); O. Meyer, 1919:153 (Germany: Posen Province, now Poland: Poznań Region); Dubois, 1922:201, 203 (in key to Belgian Sphecidae); Fahringer, 1922:180 (Turkey); Maidl, 1922:71 (Albania, Croatia); Leininger, 1924:121 (Germany: Baden-Württemberg: Friedrichstal); Berland, 1925d:90 (in Sphecid Fauna of France); Bischoff, 1925:300 (Latvia: Jelowka and Wezkukkul; Poland: Grajewo area); K. Strohm, 1925:211 (Germany: Baden-Württemberg: Achkarren); Bouwman, 1926:280 (in list of Sphecidae of Netherlands); Friese, 1926:160 (in key to Sphecidae of Central Europe, short morphological and biological characteristics); Bouwman, 1927:55 (in revision of Sphecidae of Netherlands); Crèvecoeur and Maréchal, 1929:167 (Belgium: Hoeylaert); Schmiedeknecht, 1930:682, 684 (in key to Hymenoptera of North and Central Europe); Bischoff, 1931:9 (Spain); Grandi, 1931:58 (Italy: Umbria: Foligno); Pulkkinen, 1931:63 (in revision of Sphecidae of Finland); Giordani Soika, 1932a:21 (Italy: Lido di Venezia); Nadig, 1933:90 (Morocco: Goundafa); Balles, 1934:19 (Germany: Baden-Württemberg: 13 localities); Grandi, 1934:129 (Italy: Toscana: San Vincenzo); Bernard, 1935:63 (France: Var: Fréjus area); Forsius in Forsius and Hellén, 1935:11 (in checklist of Hymenoptera of Finland); Grandi, 1935a:110 (Italy); Vergne, 1935:118 (France: Auvergne: common); Crèvecoeur and Maréchal, 1936:253 (in catalog of Belgian Hymenoptera); Drogoszewski, 1936:129 (Poland: Łowicz, as *5-cinctus*); Wnukowskij, 1936:128 (Russia: Western Siberia: Tomsk and railroad station Mezheninovka at 56°21'38"N 85°22'4"E); Dulac, 1937:11 (France: Bois des Gautherons, La Coudraye, Saône-et-Loire: Saint-Laurent d'Andenay); Zavadil, Šustera, and Bat'a, 1937:191 (in catalog of Sphecidae of Czechoslovakia); Móczár, 1938c:81 (Hungary: Kőszeg Hills); Redikortsev, 1938:144 (Russia: Mordovian State Nature Reserve, as *quadricinctus*); A. Wagner, 1938a:121 (northwestern Germany); Maidl and Klima, 1939:96 (in catalog of world Astatinae and Bembicinae); Maréchal, 1939:341 (Belgium: Lanaye and Loën); Móczár, 1939:5 (Hungary: Jászberény); Balthasar, 1941b:113 (Czech Republic: eastern Moravia); Guiglia, 1941c:164 (Italy: Calabria: Grande Sila); Paul, 1941:44 (Germany: Pommern: Stettin, now Poland: Województwo Zachodniopomorskie: Szczecin); Giner Marí, 1943a:181 (in Sphecid Fauna of Spain); Guiglia, 1944b:20 (Italy); Deleurance, 1946b:67 (France: Bouche-du-Rhône: Camargue: Bois des Rièges); Balthasar, 1948:142 (Slovakia: Kovačov); Šnoflák in Zavadil and Šnoflák, 1948:70, 72 (in key to Sphecidae of Czechoslovakia); Aerts, 1950a:51 (Germany: Nordrhein-Westfalen: Rheidter Wertchens

near Köln); Cavro, 1950:34 (France: Département du Nord); Georgel, 1950:64 (France: Seine-et-Oise: Sucy-en-Brie); Benno, 1951a:273 (Netherlands: Helenaveen); de Beaumont, 1951g:312 (Italy), 1951h:33 (Switzerland: Neuchâtel area); Caruel, 1952a:62 (France: Marne Department); Cleu, 1953:50 (France: Ardèche River basin); de Beaumont, 1953f:178 (in revision of western Palearctic *Gorytes*); Móczár, 1953:310 (Hungary); de Beaumont, 1954e:89 (Italy); Grandi, 1954:233 (Italy); Aerts, 1955:62 (Germany: Rheinland); Atanassov, 1955:200 (first record from Bulgaria: Eleuthera monastery at Dramsko, western Thracia, and Sandanski); Steiner, 1955:145 (France: Dordogne); Vogrin, 1955:35 (Yugoslavia); Leclercq, 1956i:132 (Luxembourg); Bajári, 1957a:107, 110 (in key to Hungarian Sphecidae); Grandi, 1957:385 (Italy: Abruzzi); Zirngiebl, 1957:181 (Germany: Rheinland-Pfalz: Pfalz region); Benno, 1958b:11 (in review of Dutch Sphecidae); de Beaumont, 1959a:20 (Italy); Wolf, 1959b:30 (Germany: Nassau); Noskiewicz and Puławski, 1960:92, 94 (in key to Polish Sphecidae); van der Vecht, 1961a:48 (study of type); Atanassov, 1962:123 (Bulgaria: Petrich area); de Beaumont, 1962b:24 (Spain); Grandi, 1962:98 (Italy); Valkeila, 1962b:67 (southwestern Finland); Lehrer and Scutaru, 1963:286 (Romania: Moldova: Baia in Suceava District, Mircești in Iași District); Scobiola-Palade, 1963:825 (Romania: Periprava in Danube delta); Babiy, 1964:117 (Austria: Land Salzburg); Ceballos, 1964:92 (in supplement to catalog of Spanish Sphecidae); de Beaumont, 1964c:49 (in Sphecid Fauna of Switzerland); Plavil'shchikov, 1964:122 (Russia: Mordovian State Nature Reserve); de Beaumont, 1965a:35 (Greece); B. Klug, 1965:136 (Germany: Baden-Württemberg: Freiburg im Breisgau area); Roberti, Frilli, and Pizzaghi, 1965:110 (Italy: Emilia-Romagna: Piacenza and Bobbio in Piacenza Province); Bonelli, 1966c:216 (Italy: Trentino-Alto Adige: Cavalese, Fiemme); Scobiola-Palade, 1966b:392 (Romania: Tulcea District: C.A. Rosetti); Balthasar, M. Hrbant, and E. Hrbant, 1967:172 (Bulgaria: Slanchev Bryag near Nessebar); Benno, 1967:34 (in checklist of Sphecidae of Netherlands); de Beaumont, 1967a:313 (Turkey); Gauss, 1967:552 (Germany: Baden-Württemberg); J. Heinrich, 1967:71 (Germany: Bayern: Unterfranken District); Niedl and Deneš, 1967:82 (Czech Republic: Třeboň area); Scobiola-Palade, 1967a:161 (Romania: Constanța District: Comarova, Hagieni), 1967b:48 (Romania); Benedek, 1968:72 (Hungary, floral records); Scobiola-Palade, 1968b:142 (Romania: Island of Letea in delta of Danube), 1968c:383 (Romania: Budești); Benedek, 1969a:83 (Hungary; marshy meadow); Lefeber, 1969c:233 (Netherlands: Sint-Pietersberg = Montagne Saint Pierre); Romanova, 1969:133 (Russia: North Caucasus); Zangheri, 1969:1701 (Italy: in catalog of flora and fauna of Romagna Region); Benedek, 1970:97 (Hungary: Tapolca); Gauss and Perraudin, 1970:360 (Germany: Baden-Württemberg: Bodensee area); Oehlke, 1970:690 (Democratic Germany); Tumšs, 1970:79 (Latvia); Lefeber, 1971a:17 (Netherlands: Jabbeek); Schmidt, 1971b:27 (Germany: Rheinland-Pfalz: Mainzer Sand); Stritt, 1971a:104 (Germany: Baden-Württemberg: Karlsruhe); Balthasar, 1972:306 (in Sphecid Fauna of Czechoslovakia); Kazenas, 1972b:152 (Kazakhstan); Kofler, 1972:106 (Austria: eastern Tirol); Scobiola-Palade, 1972a:150 (Romania: delta of Danube: Caraorman); Simon-Thomas, 1972:178 (France); Diniz, 1973:45 (Portugal: Coimbra, Guimarães, Lanhelas, Setúbal); Erlandsson, 1974:64 (Italy); Kazenas, 1974b:110 (feeding on flowers of *Euphorbia* spp., Euphorbiaceae, in Kazakhstan); Lefeber, 1975:37 (Belgium: Zondhoven near Genk); Lomholdt, 1975c:194 (in Sphecid Fauna of Fennoscandia and Denmark); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Lefeber, 1976:151 (Belgium: Winterslag); Simon Thomas, 1976:4 (France: Lot-et-Garonne: Forêt de Campet); Eck, 1976:90 (Democratic Germany); Kolesnikov, 1977:317 (Russia: Bryansk Oblast'); Schmidt, 1977/78:55 (Germany: Rheinland-Pfalz: Gonsenheimer Wald); Guichard, 1978:270 (Greece); Kazenas, 1978b:75, 77 (in key to Sphecidae of Kazakhstan and Central Asia); Marion, 1978:87 (France: Nièvre Department); Pulawski, 1978:202, 203 (in key to Sphecidae of European part of USSR); Schwammberger, 1978:417 (Germany: Württemberg); Benedek, 1979:230 (Hungary: Bakony Mountains); Lefeber, 1979:11 (in checklist of Sphecidae of Netherlands), 39 (Netherlands: distribution map); Schmidt, 1979:349 (Germany); Mityaev, Matesova, Kulenova, Kazenas, and Zhdanko, 1980:119 (Russia: Siberia: Altayskiy Kray: basin of Aley River); Pagliano, 1980:116 (Italy: Piemonte); Dollfuss and Ressl, 1981:324 (Austria: Niederösterreich: Scheibbs District); Donath, 1982:212 (Germany: Cottbus Bezirk); Gayubo, 1982b:42 (Spain: Ávila and Salamanca provinces); Silvestre de Sacy, 1982:5 (France: Côtes-du-Nord: Paimpol area); Skibińska, 1982:123 (Poland: Warszawa area); Dollfuss, 1983b:23 (Austria); Józan, 1983:100 (Hungary); Schmidt and Westrich, 1983:124 (Greece);

Chevin and Silvestre de Sacy, 1984:10 (France: Yvelines Department); Józan, 1985b:61 (Hungary south of Lake Balaton), 81 (floral records), 84 (ecological and zoogeographic characteristics); Lefever, 1985:87 (Netherlands: southern Limburg); Scobiola-Palade, 1985:96 (Romania: delta of Danube); Brechtel, 1986:59 (Germany: Südpfalz); Gayubo, 1986d:119 (Spain: Zamora Province); Gayubo and Sanza, 1986:77 (Spain: Burgos); Józan, 1986:374 (Hungary: Kiskunság National Park); Nemkov, 1986:108 (Russia: Siberia: Irkutsk Oblast'); Skibińska, 1986b:162 (Poland: urban parks of Warszawa); Vilberg, 1986:78 (Finland); Schmidt and Westrich, 1987:359 (Germany: Mainz area); Chevin, 1988:16 (France: La Manche Department); Dollfuss, 1988:19, 30 (Austria: Bisamberg near Vienna; Niederösterreich: Oberweiden); Düweke, 1988:688 (Germany: Baden-Württemberg: Kaiserstuhl); Kowalczyk, 1988a:45 (Poland: Rogów), 1988b:64 (Poland: environs of Łódź); Wolf, 1988b:141 (Germany: Rheinland-Westfalen); Jacobs, 1989:27 (Germany: Mecklenburg-Vorpommern); Józan, 1989:102 (Hungary: Tihany Natural Reserve); Nemkov, 1989:69, 71 (in key to *Gorytes* of Siberia and Russian Far East); Pádr in Šedivý, 1989a:167 (in checklist of Czechoslovakian Sphecidae); Pankevich, Belyavskaya, Molchanova, Shlyakhtenok, and Blinov, 1989:95 (Belorussia: Berezinskiy Nature Reserve); Scobiola-Palade, 1989:88 (Romania: delta of Danube); Gayubo, Asís, and Tormos, 1990b:78 (Spain: Cáceres Province); Jacobs and Oehlke, 1990:212 (new records from Democratic Germany); Kuznetzova, 1990:19 (Russia: Voronezh Oblast': Galich'ya Gora Nature Reserve); Nemkov, 1990b:681, 685 (in key to *Gorytes* of USSR); Pádr, 1990:71 (Czech Republic: Praha area); Pagliano, 1990:71 (in catalog of Italian Sphecidae); Schwammberger and Priesner, 1990:552 (Austria: Kärtner); Dollfuss, 1991:200 (in key to Sphecidae of North and Central Europe); Gayubo, Borsato, and Osella, 1991:415 (Italy); Józan, 1991:604 (Hungary: Bátoriget Nature Reserve); Kowalczyk, 1991a:89 (Poland: Łódź), 1991b:120 (Poland: Augustów Forest); Negrisolo, 1991:323 (Italy: Gorizia, Treviso and Udine Provinces); Budrys, 1992:28 (in list of Sphecidae of Lithuania); Delarze, 1992:67 (Switzerland: Valais: Les Follatères); Józan, 1992a:229 (Hungary: Béda-Karapancsa Protected Area), 1992b:176 (Hungary: Boronka-melléki Protected Area), 1992c:290 (Hungary: Zselic Hills); Pagliano, 1992:39 (in key to Italian Bembicinae); K. Weber, 1992:87 (Germany: Bayern: Bamberg District); Józan, 1993:415 (Hungary: Bükk National Park); Kuhlmann, 1993:75 (Germany: known from Westfalen); Torregrosa, Gayubo, Tormos, and Asís, 1993:20 (Spain: Alicante Province); Blagoveshchenskaya, 1994:91 (Russia: Ul'yanovsk Oblast'); Gayubo and Borsato, 1994:217 (Italy: Piemonte, Veneto, Friuli, Emilia); Kowalczyk, 1994:73 (Poland: Łagiewniki forest in Łódź); Gorobchishin, 1995:18 (Ukraine: Kanev Nature Reserve); Józan, 1995:105 (Hungary: projected Duna-Dráva National Park); Jansen and Kaluza, 1995:7 (Germany: endangered in Sachsen); Krasnobayev et al., 1995:139 (Russia: Zhiguli Hills northwest of Samara); Negrisolo, 1995a:22 (Italy: Veneto); Negrisolo in Minelli, Ruffo, and La Posta, 1995b:4 (in catalog of Italian fauna); Nemkov in Nemkov, Kazenas, Budrys, et Antropov, 1995:463, 465 (in key to Sphecidae of Russian Far East); Pagliano and Pesarini, 1995:91 (Italy: Ferrara Province); Scharrer, 1995:29 (Austria: Wien area; Germany: Baden-Württemberg: Sulzbach. Bayern: Aschaffenburg, Obernau; Slovenia: Portorož); Schmid-Egger, 1995:61 (Germany: northwestern Baden-Württemberg); Schmid-Egger, Risch, and Niehuis, 1995:185 (Germany: summary of records from Rheinland-Pfalz); Arens, 1996:442 (Germany: Bayern: Bayreuth area); Doronin, 1996:18 (Latvia: Kalngale, nest parasitized by *Hedychrum nobile* Scopoli., a chrysidid); Gorobchishin, 1996:53 (Ukraine: Kanev Nature Reserve); Jakubzik, 1996:252 (Germany: Köln); Minoranskiy and Shkuratov, 1996:81 (Russia: Rostov Oblast'); Schmid-Egger, Schmidt, and Doczkal, 1996:377 (Germany: Baden-Württemberg: not endangered); Tischendorf, 1996:46 (Germany: Hessen: near Bensheim); Voblenko, Gorobchishin, and Nesterov, 1996:15 (Ukraine: Polesye Region); Witt, 1996:106 (Germany: Brandenburg), 108 (locality records); Woydak, 1996:96 (Germany: Westfalen: summary of distribution and nesting behavior), 104 (not recorded after 1950); Wu and Zhou, 1996a:144 (in revision in Economic Insect Fauna of China); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:200 (in Sphecid Fauna of Western Europe); Celary, 1997:60 (in checklist of Animals of Poland); Pagliano and Alma, 1997:178 (known prey listed); Petit, 1997:351 (Belgium: Liège Province: Lanaye: colonization of new habitat); Schmidt and Schmid-Egger, 1997:15 (in checklist of German Sphecidae); Shlyakhtenok, Blinov, and Belyavskaya, 1997:151 (Belorussia: Pripyatskiy National Park); F. Burger, Saure, and Oehlke, 1998:28 (Germany: in list of Sphecidae of Brandenburg), 35 (endangered); Dollfuss, Gusenleitner, and Bregant,

1998:523 (Austria: summary of collecting records from Burgenland); Flügel, 1998:60 (Germany: Brandenburg: Unteres Odertal National Park); Lefeber, 1998:182 (Netherlands: Limburg: Sint-Pietersberg near Maastricht at 50°50'N 5°41'E); Salzmann-Wandeler, 1998b:102 (Switzerland: Schwyz Canton: Gersau-Oberholz); K. Weber, 1998:140 (Germany: Bayern: Bamberg area); Anan'eva and Kochetkov, 1999:7 (Russia: Ryazan Oblast': no specific locality); Gusenleitner, 1999:601 (Austria: Vorarlberg: Koblach); W. Klein, 1999:23 (in improved key to male *Gorytes* of Benelux); Kuhlmann, Wolf, and Woydak, 1999:568 (Germany: extinct or presumably extinct in Nordrhein-Westfalen); Ljubomirov, 1999b:57 (Bulgaria: Mount Vitosha near Sofia); Majzlan, Rychlík, and Deván, 1999:146 (Slovakia: Čenkovská Step Nature Reserve); Mandery, 1999:105 (Germany: Bayern: Coburg area); Neumayer, Schwarz, and Bregant, 1999:224 (Austria: in checklist of Sphecidae of Land Kärnten); Pauly, 1999:111 (in catalog of Belgian aculeates); Podgorbunskikh and Rudoiskatel', 1999:142 (Russia: Chelyabinsk Oblast': Il'men Nature Reserve); Zehnder and Zettel, 1999:131 (Switzerland: recolonization of flooded area in Valais Canton); M. Schwarz, 1999:88 (Austria: Oberösterreich: city of Linz area); Blösch, 2000:384 (in Sphecidae Fauna of Germany); Esenbekova and Kazenas, 2000:61 (Kazakhstan: 10 km south of Alma Ata); Giachino, Grossi, Marchetti, Pagliano, Scaramozzino, and Vailati, 2000:109 (Greece); Jacobs, 2000:7, 16 (Germany: Land Mecklenburg-Vorpommern: close to extinction); Józan, 2000:113 (Hungary: Bakony Mountains); Ljubomirov, 2000:12 (Bulgaria, specimens in N. Nedelkov collection); Mokrousov, 2000b:31 (Russia: Nizhniy Novgorod Oblast'); Neumeyer, 2000:99 (Switzerland: Basel); Schmid-Egger, 2000b:275 (Germany: Baden-Württemberg: shores of Rhine River); Shkuratov, 2000:56 (Russia: Rostov Oblast': Véshenskaya village area at 49°37'N 41°45'E); Vicedomini, 2000b:24 (Italy: previously recorded from Campania); Dillier and Neumeyer, 2001:29, 33 (Switzerland: delta of Reuss River on Lake Uri); Józan, 2001:281 (Hungary: Somogy County); Kazenas, 2001b:46 (in checklist of Sphecidae of Kazakhstan and Central Asia); Kazenas and Esenbekova, 2001:135 (Kazakhstan: Almatinskiy Nature Reserve); Ljubomirov, 2001b:53 (Bulgaria: Mount Vitosha near Sofia); Ohl et al., 2001:139 (distribution in Germany by provinces); Salzmann-Wandeler and Rezbanyai-Reser, 2001:157 (Switzerland: Tessin Canton: Meride area); Tischendorf, 2001:30 (Germany: Hessen: Kühkopf-Knoblochsaue Nature Reserve); Wolf, 2001a:171 (Germany: Bayern: Lech valley from Augsburg to Donau); Zettel, Gross, and Mazzucco, 2001:80 (Austria: Wien); Bieri, 2002:76 (Liechtenstein); Herrmann and Zinnert, 2002:25 (Germany: Baden-Württemberg: Bettenberg near Konstanz, as *quincecinctus*); Józan, 2002:54 (Hungary: Mecsek Mountains); Kazenas, 2002a:121 (geographic distribution, collecting localities in Kazakhstan); Kowalczyk, Szczepko, and Świątek, 2002:155 (Poland: Kampinos National Park near Warszawa); Schmid-Egger, 2002b:182 (in revision of western Palearctic *Gorytes*); Shlyakhtenok and Skibinska, 2002:35 (Belarus: no specific locality); Söderman and Vikberg, 2002:53 (in list of Aculeata of Finland); Wiśniowski, 2002:73 (Poland: Ojców National Park); Ziska, 2002:8 (Germany: Berlin-Köpenick: Krumme Lake); Drewes, 2003:138 (France: Haute-Savoie: mouth of Dranse; Hungary: Hortobagy; Italy: Trentino: Lago di Tenno, Nago, Torbole); Józan, 2003:228 (Hungary: Látrányi Puszta Nature Conservation Area); Mandery, Kraus, Voith, Wickl, Scheuchl, Schubert, and Warncke, 2003:66 (Germany: in catalog of wasps and bees of Bayern); Protsenko, 2003:68, 69 (Ukraine: Odessa Oblast': Island of Malyi Tataru in Danube delta at 45.21°N 29.00"E); Tischendorf and Treiber, 2003:121 (Germany: Hessen: 15 km southwest of Frankfurt am Main: nesting under high power lines); Wickl, Voith, Mandery, Weber, Kraus, Bausenwein, and Blösch, 2003:197 (Germany: Bayern: approaching endangered status); Wiśniowski *in* Dylewska and Wiśniowski, 2003:178 (Poland: Ojców National Park); Esser, Jakubzik, Sonnenburg, and Woydak, 2004:262 (Germany: in checklist of Sphecidae of Nordrhein-Westfalen); Hellrigl, 2004a:173 (Italy: Trentino-Alto Adige, as Südtirol: Vinschgau = Val Venosta: Lichtenberg near Prad); Klein and Lefeber *in* Peeters, van Achterberg, et al., 2004:387 (in Wasp and Ant Fauna of Netherlands); Litt, 2004:222 (Switzerland: Valais: Vissoie); Majzlan and Deván, 2004:32 (Slovakia: Malacky-Široké); Salzmann-Wandeler and Rezbanyai-Reser, 2004:27 (central Switzerland); Shkuratov, 2004a:75 (Russia: Rostov Oblast'), 2004b:165 (Russia: Rostov Oblast': Gosudarstvennyi Muzey-Zapovednik M.A. Sholokhova); Skibińska *in* Bogdanowicz, Chudzicka, Pilipiuk, and Skibińska, 2004:355 (in catalog of Polish Crabronidae); Stolle et al., 2004:371 (Germany: Sachsen-Anhalt: in red list of Sphecidae); van Achterberg and Peeters, 2004:32 (in checklist of Sphecidae of Netherlands); Wiśniowski,

2004:51 and 62 (in checklist of Polish Sphecidae); Burger, 2005:33 (Germany: Thüringen); Cruz-Sánchez, Gayubo, González, and Torres, 2005:219 (Spain: Salamanca: San Martín del Castañar); Fallahzadeh, Ostovan, and Shojaei, 2009:43 (first record from Iran: Fars: Jahrom); Gayubo and Özbek, 2005:18 (Turkey: eight localities); Jacobs, 2005a:446 (Bulgaria); Kofler, 2005:184 (Austria: Tirol: Lienz District: several localities); Kowalczyk and Kurzac, 2005:105 (Poland: Botanical Garden in Łódź); Landeck, Wöhler, and Landgraf, 2005:18 (Germany: Lausitz Region; visiting flowers of *Reseda luteola* Linnaeus, Resedaceae); Mandery, 2005:174 (Germany: Bayern: Hainberg Nature Reserve near Nürnberg); Mokrousov and Selivanova, 2005:753 (Russia: Voronezh Oblast'); Pagliano and Negrisolo, 2005:145 (in Sphecid Fauna of Italy); Saure, 2005:16 (Germany: Berlin); Theunert, 2005a:17 (Germany: in checklist of Sphecidae of Niedersachsen and Bremen); Yıldırım and Ljubomirov, 2005:1792 (Turkey: Artvin, Bayburt, and Erzurum provinces); Ziska and Saure, 2005:81 (Germany: Berlin: Biesenhorster Sand); Feitz, Gloden, Melchior, and Schneider, 2006:82 (Luxemburg: Baggerweieren area in Haff Réimech Nature Reserve); Gorobchishin, 2006:140 (Ukraine: Cherkasy Oblast': Kaniv Nature Reserve; Kyiv Oblast': village Svitlyne; Vinnytsya Oblast': village Dubovets'); Hua, 2006:280 (in list of Chinese insects, geographic distribution); Liebig, 2006:38 (Germany: Sachsen: Muskauer Heide); Ljubomirov, 2006:540 (Bulgaria: Rhodope Mountains: Narechenski Bani village, Velingrad; Greece: records from Rhodope Mountains by Schmidt and Westrich, 1983 reported; as *quinquecinctus quinquecinctus*); Shlyakhtenok, 2006:113 (Belorussia: Polesye Radiological Nature Reserve); Standfuss and Standfuss, 2006c:305 (Greece: Thessalia: Magnisia Peninsula at 39°N 23°E); Tomarchio and Turrisi, 2006:955 (Italy: first record from Sicilia: Mount Etna); Vepřek, 2006:510 (Czech Republic: Kokořínsko area); Burguet, 2007:unnumbered p. 10 (France: Puy-de-Dôme: sands Girauds-Faures in Orléat commune); Cungs, Jakubzik, and Cölln, 2007:140 (Luxemburg: Haardt Nature Reserve); Dvořák, Straka, Smetana, Halada, Vepřek, and Karas, 2007:168 (Czech Republic: Vyšenské Kopce National Nature Reserve); Evans and O'Neil, 2007:55 (K. Schmidt reported *Philaenus* sp. as prey); Herrmann, 2007b:94 (Germany: Baden-Württemberg: Fürstenberg in Konstanz); Jacobs, 2007:174, 178 (in key to Crabronidae of Germany); Jansen and Kaluza, 2007:24 (Germany: northwestern Sachsen); Józan, 2007:180 (Hungary: Zselic hills); Kowalczyk and Nadolski, 2007:283 (Poland: Łódź: railway areas); Saure, 2007:82 (Germany: in checklist of Aculeata of Brandenburg,); Shoreko, 2007b:258 (Ukraine: Crimea: Feodosiya); G. Turrisi and R. Turrisi, 2007:116 (Italy: Sicilia: Mount Etna: Botanical Garden Nuova Gussonea and vicinity); Vago, 2007:174 (France: départements du Nord, Pas-de-Calais, and Somme); Vepřek and Straka, 2007:208 (in catalog of Sphecidae of Czech Republic and Slovakia); Vicedomini and Pignataro, 2007:2 (Italy: Salerno: known from Parco Nazionale del Cilento e Vallo di Diano), 15 (Italy: Provincia di Salerno: ubiquitous); Yıldırım and Ljubomirov, 2007:118 (Turkey: Erzincan and Erzurum provinces); Ivory, Chevin, Lair, Sagot, and Baldock, 2008:35 (France: Département de la Manche); Ljubomirov and Yıldırım, 2008:81 (in catalog of Crabronidae of Turkey); Nemkov, 2008b:24 (in catalog of Crabronidae of Asiatic Russia); Protsenko and Drozdovskaya, 2008:128 (Ukraine: Sumy Oblast': Mogritsa village); Baños-Picón, Asís, Gayubo, and Tormos, 2009:311 (Spain: frequency of specimens collected with hand nets and Malaise traps); Debuyser and Vago, 2009:2 (in list of Sphecidae *sensu lato* of northern France); Fallahzadeh, Ostovan, and Saghaei, 2009:237 (Iran: Fars: Jahrom), 243 (color photograph); U. Frommer, 2009a:27 (Germany: in checklist of Sphecidae of Hessen); Józan, 2009:166 (Croatia: Podhum, Most-Raša); Kowalczyk, Kurzac, and Nadolski, 2009:62 (Poland: between Warta and Widawka rivers); Nemkov, 2009b:137 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); Pagliano, 2009:178 (Italy: recorded from Sicilia by Tomarchio and Turrisi, 2006); Ruchin, Antropov, and Shibayev, 2009:170 (Russia: Republic of Mordovia); Shoreko, 2009:368 (in list of Sphecidae *sensu lato* of Crimea); Esser, Fuhrmann, and Venne, 2010:36 (Germany: in checklist of aculeates of Nordrhein-Westfalen); Hable, von der Dunk, and Knipfer, 2010:65 (Germany: Bayern: vicinity of Dietfurt); Hable, Krauss, von der Dunk, and Wickl, 2010:27 (Germany: Bayern: Sulz- and Ottmaringer Tal); Mokrousov, 2010a:61 (Russia: Kirov, Kostroma, Nizhniy Novgorod, Vladimir oblast's, Chuvash Republic, Mordovian Republic, Tatarstan: no specific localities); Rudoiskatel', 2010:150 (Russia: central and southern Ural Mountains); Schmid-Egger, 2010a:16 (in red list of Aculeata of Germany: relatively common); Shoreko and Konovalov, 2010:15 (Ukraine); Smetana, Roller, Beneš, Bogusch, Dvořák, Holý, Karas, Macek,

Straka, Šima, Tyrner, Vepřek, and Zeman, 2010:101 (Western Slovakia: recorded from Borská Nížina); Treiber, 2010:135 (France: départements du Bas-Rhin and du Haut-Rhin); Tüzün and Yüksel, 2010:4473 (Turkey: Niğde Province); van der Smissen, 2010b:384 (France: Vaucluse: Le Beauzet-Venasque); Wurdack and Gack, 2010:153 (Germany: Baden-Württemberg: Kaiserstuhl); Baghirov, 2011b:142 (Russia: Altayskiy Kray and Altay Republic); Burger, 2011a:287 (Germany: in red list of Sphecidae *sensu lato* of Thüringen); Gogala, 2011:27 (Slovenia); Józan, 2011:183 (in checklist of Sphecidae *sensu lato* of Hungary); Mokrousov, Berezin, and Egorov, 2011:67 (Russia: Chuvash Republic); Rudoiskatel', 2011a:66 (Russia: Perm' Oblast': Okhansk); Rudoiskatel', 2011d:240 (Russia: central Ural Mountains); Saure, 2011c:198 (Germany: Berlin-Spandau: Fort Hahneberg); Shlyakhtenok, 2011:95 (Belorussia: city of Minsk); Theunert, 2011a:20 (Germany: in checklist of aculeates of Niedersachsen including city of Bremen); Tischendorf, Frommer, Flügel et al., 2011:71 (Germany: Hessen: endangered), 103 (may be endangered); Tripotin, 2011:23 (France: Seine-Maritime: artificial sand site near Sandouville); Boillat, 2012:227 (Switzerland: in checklist of insects of Canton de Genève); Burguet in Durand and Burguet, 2012:3 (France: Puy-de-Dôme: sands Girauts-Faures in Orléat commune); Cölln, Jakubzik, and Kinkler, 2012:24 (Germany: Nordrhein-Westfalen: Leverkusen); Gerth, Mayer, Hering, Wolf, Schaffer, and Bleidorn, 2012:9 (Germany: Sachsen: Bienitz in Leipzig); Shlyakhtenok, 2012a:171 (Belorussia: collected in private plots); Strumia, Pagliano, and Gayubo, 2012:56 (Italy: Toscana: Riserva di San Rossore); Tripotin, 2012:23 (France: Seine-Maritime: estuary of Seine river); Yıldırım, 2012:76 (Turkey: Bayburt, İğdir, and Kars provinces); Bayındır, Gürbüz, Ljubomirov, and Pohl, 2013:146 (Turkey: Isparta: Kasnak Oak Forest Nature Reserve); Dyuzhaeva, 2013:117 (Russia: Samara Oblast': Zhiguli Nature Reserve); Mokrousov, Ruchin, and Egorov, 2013:199 (Russia: Mordovian Republic: Mordovian State Nature Reserve); Pankov, 2013:229 (Russia: Ivanovo Oblast'); Saure, 2013:19 (Berlin: Treptow-Köpenick: Gosener Wiesen); A. Scholz and Liebig, 2013:20 (Germany: Sachsen: in list of Sphecidae *sensu lato*); Shlyakhtenok, 2013:234 (in annotated catalog of aculeate wasps of Belorussia); Wiśniowski and Piotrowski, 2013:21 (Poland: Poleski National Park); Wiśniowski and Szczepko, 2013:35 (Poland: Kampinos National Park near Warszawa); U. Frommer, 2014:27 (Germany: Hessen: Lorch); Hellqvist, Abenius, and Norén, 2014:90 (in catalog of Ampulicidae, Sphecidae, and Crabronidae of Sweden, by provinces); Mokrousov and Vafin, 2014:55 (Russia: Republic of Tatarstan); Protsenko, Fateryga, and Ivanov, 2014:31 (Crimea: several localities); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); P. Rosa and Pagliano, 2015:101 (Italy: Lombardia and Piemonte: Parco del Ticino); Samin, Bagriacik, and Monaem, 2015:196 (Iran: East Azarbaijan: Khomarloo); Shorenko, 2015:338 (in list of Sphecidae *sensu lato* of Crimea); Simon, Lorthiois, and Macé, 2015:54 (France: alluvial terraces in Eure Department: Courcelles-sur-Seine, and Seine-Maritime Department: Anneville-Ambourville); Bleidorn, Gerth, Hopfe, et al., 2016:10 (Germany: Sachsen: Trages circa 20 km south of Leipzig); Le Divelec, Chapelin-Viscardi, and Larivière, 2016:108 (northern France: in agricultural landscapes); Mokrousov and Popov, 2016:568 (Russia: Krasnodarskiy Kray); Saure, 2016a:8 (Germany: Brandenburg: Uckermark District: dry slopes near Altgallow-Stützkow), 2016b:49 (Germany: Sachsen-Anhalt: fruit orchards); Stolle and Saure, 2016:923 (Germany: in list of Sphecidae *sensu lato* of Sachsen-Anhalt); Wiśniowski, 2016:128 (Poland: Ojców National Park); Yıldırım, Ljubomirov, Özbek, and Yüksel, 2016:14 (Turkey: Artvin, Bayburt, Erzurum, Giresun, Kars, and Tunceli provinces); Jahantigh, Rakhshani; Mokhtari, and Ramroodi, 2017:37 (Iran: known from East Azerbaijan and Fars provinces); Jansen, 2017:8 (Germany: Sachsen: Leipzig); Nemkov, 2017a:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:223 (in catalog of Bembicinae of Russia, as *quinquecinctus quinquecinctus*); Shorenko, 2017:80 (in Crimea collected in June and July); Jacobs and Liebig, 2018:142 (Russia: Irkutsk Oblast': Bol'shoye Goloustnoye); Kemal and Koçak, 2018:34 (Turkey: in list of pterygot insects of Van Province); Shorenko, 2018:129 (Crimea, including localities, habitats, and number of specimens); Carminati, Mora, and Cretin, 2019:10 (France: in list of Sphecidae *sensu lato* of Franche-Comté); Mokrousov, Proshchalykin, Aliyev, and Maharramov, 2019:12 (Azerbaijan: Nakhi-chevan Autonomous Republic); Olszewski and Kowalczyk, 2019:100 (northern Poland: Pomorze Gdańskie = Gdańsk Pomerania); Ruchin and Antropov, 2019a:13223 (Russia: Mordovian State Nature Reserve), 2019b:163

(common in Mordovian State Nature Reserve); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:245 (in Sphecid Fauna of Europe); Kejval, Blažej, and Erhart, 2020:92 (western Czech Republic); Cross, Baldock, and Wood, 2021:26 (in catalog of Sphecidae *sensu lato* of Portugal); Kaplan and Yıldırım, 2021:32 (in catalog of Crabronidae of Turkey); Mokrousov and Proshchalykin, 2021b:176, 177 (in key to Palearctic *Gorytes*); Olszewski, Wiśniowski, and Ljubomirov, 2021:91 (in commented list of Sphecidae *sensu lato* of Poland); Saure, 2021:83 (Germany: Brandenburg: Nature Reserve Ferbitzer Bruch near Potsdam); Ben Khedher, Yıldırım, and Braham, 2022:6 (in checklist of Bembicinae of Tunisia); Can, 2022:223 (supernumerary submarginal cell); Kaplan and Yıldırım, 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

? *Crabro calceatus* Rossi, 1794:122, sex not stated. Holotype or syntypes: Italy: Etruria, now Toscana: no specific locality (lost). Synonymized with *Hoplisus quinquecinctus* by Lepeletier de Saint Fargeau, 1832:65. – de Beaumont, 1953f:198 (discussion of identity).

? *Mellinus arenarius* Panzer, 1798, Heft 53:12 [♀]. Holotype or syntypes: ♀, Austria: no specific locality (lost during World War 2 ?). – Peets, 1909-1911:67 (*Mellinus arenarius* of Panzer = *Gorytes quinquecinctus*); de Beaumont, 1953f:198 (discussion of identity). – As *Arpactus arenarius*: Jurine, 1807:194 (new combination, in checklist of species of *Arpactus*). – As *Hoplisus arenarius*: Wissmann, 1849:12 (new combination, Germany: Kingdom of Hanover: Münden); Kirchner, 1867:220 (in catalog of European Hymenoptera). – As *Gorytes arenarius*: Audouin, 1825:445 (new combination, in Dictionnaire classique d'histoire naturelle, misspelled *armarius*); Stephens, 1829:363 (in catalog of British insects), 1829b:33 (in checklist of British insects); Vander Linden, 1829:99 (new combination, bibliographic references, redescription, Belgium: Bruxelles, Germany); Herrich-Schaeffer, 1840:290 (Germany: Bayern: Regensburg area).

As *Gorytes cinctus*: Latreille, [1805]:308 (redescription; the name is a lapsus for *quinquecinctus*, because it refers to *Mellinus quinquecinctus* Fabricius, and because it should be a translation of “Goryte à cinq bandes”), 1806:pl. XIII, fig. 11 (illustration); Spinola, 1806:92 (Italy: Liguria); Becker, 1880:151 (Russia: Sarepta, now Krasnoarmeysk south of Volgograd); de Beaumont, 1953f:198 (the name is a typographic error).

? *Gorytes ruficornis* Latreille, [1805]:309, ♀. Holotype or syntypes: ♀, France: no specific locality (depository?). – de Beaumont, 1953f:200 (discussion of identity). – Spinola, 1808:175 (Italy: Genova area). – As *Stizus ruficornis*: Klug in Waltl, 1835:88 (new combination, in list of Hymenoptera of Andalusia). – As *Hoplisus ruficornis*: Casolari and Casolari Moreno, 1980:121 (new combination, specimens in M. Spinola collection, Torino); Pagliano, 2014:86 (specimens in M. Spinola collection, Torino are *Gorytes sulcifrons* and *Gorytes quinquefasciatus*).

As *Hoplisus ?punctuosus*: Wierzejski, 1868:117 (Ukraine: Podole, Lvov), corrected to *Hoplisus quinquecinctus* by Wierzejski, 1874:259.

Gorytes proximus Handlirsch, 1893b:280, ♀. Holotype: ♀, Azerbaijan: Helenendorf, now Khanlar (NHMW). Synonymized with *Gorytes quinquecinctus* by Nemkov, 1989:72. – Handlirsch, 1895:923 (original description copied); Dalla Torre, 1897:550 (in catalog of world Sphecidae); Maidl and Klima, 1939:96 (in catalog of world Astatinae and Bembicinae); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Dollfuss, 1989:9 (type material in NHMW).

As *Hoplisus latifrons*: Dahlbom, 1843:164 (in revision of European Hymenoptera) and 1845:482 (in key to European *Hoplisus*), corrected to *Hoplisus quinquecinctus* by Thomson, 1870:246.

As *Psammaecius latifrons*: Radoszkowski, 1892:582 (male genitalia), corrected to *Gorytes quinquecinctus* by Handlirsch, 1895:922.

ssp. *sinuatus* (A. Costa)

Hoplisus sinuatus A. Costa, 1867c:64, ♀, ♂. Syntypes: Italy: Napoli area and Toscana: no specific localities (Napoli). – Baldini, 1894:67 (Italy: Modena area); de Beaumont, 1953i:4 (study of the only surviving syntype, a ♀). – As *Gorytes sinuatus*: Handlirsch, 1888b:181 (new combination, in revision of world Bembicinae); R. Bohart and Menke, 1976:501 (as synonym of *Gorytes quinquecinctus*). – As *Gorytes quinquecinctus sinuatus*: de Beaumont,

1951g:312 (new status, Italy), 1953f:177 (in revision of western Palearctic *Gorytes*); Grandi, 1954:233 (Italy). – As *Gorytes quinquecinctus* var. *sinuatus*: Bajári, 1957a:107, 110 (new status, in key to Hungarian Sphecidae).

Hoplisus sinuatus A. Costa, A. Costa, 1869b:81. Objective synonym of *Hoplisus sinuatus* A. Costa, 1867c:64.

58. *quinquefasciatus* (Panzer)

Mellinus quinquefasciatus Panzer, 1798, Heft 53:13, [♀]. Holotype or syntypes: ♀, Austria: no specific locality (depository?). – Panzer, 1806:166 (as junior synonym of *Arpactus quadrifasciatus*, in critical review of his earlier work); Peets, 1909-1911:67 (*Mellinus quinquefasciatus* of Panzer = *Gorytes quinquefasciatus*). – As *Euspongus quinquefasciatus*: Herrich-Schaeffer, 1840:291 (new combination, Germany: Bayern: Regensburg area). – As *Hoplisus quinquefasciatus*: A. Costa, 1867c:61 and 1869b:80 (new combination, in revision of Italian Sphecidae), 1883:57 (Italy: Sardegna: Oschiri); Baldini, 1894:67 (Italy: Modena area; as *quinquefasciata*); de Gaulle, 1908:120 (in catalog of French Hymenoptera, as *5-fasciatus*); Schirmer, 1912:166 (Germany: Berlin area); Noskiewicz, 1918:137 (Galicia, now western Ukraine: Brzuchowice near Lwów); Dubois, 1920:88 (specimen in collection Wesmael); Hedicke, 1922:271 (Germany: Brandenburg: Gross Machnower Weinberg); Schneid, 1941:1040 (Germany: Bayern: Bamberg area); Bat'a, 1944b:91 (Czech Republic: Veselí); Szulczewski, 1950:107 (Poland: Wielkopolski National Park 15 km south of Poznań); Bischoff and Stadler, 1954:126 (Germany: Bayern: Romberg); Hamann, 1960:198 (Austria: Oberösterreich: Mönchgraben at 48°13'N 14°21'E). – As *Gorytes quinquefasciatus*: Audouin, 1825:445 (new combination, in Dictionnaire classique d'histoire naturelle, as *fasciatus*); nec Stephens, 1829:363 (in catalog of British insects) and 1829b:33 (in checklist of British insects) = *Argogorytes fargeii*; Handlirsch, 1888b:486 (in revision of world Bembicinae); Kohl, 1888b:728 (Austria: Tirol, now Italy: Alto Adige); nec Gasperini, 1889:70 (= *Hoplisus eburneus* Chevrier); Kohl, 1893a:27 (Austria: Niederösterreich); Handlirsch, 1895:921 (Germany: Mecklenburg: Fürstenberg); Dalla Torre, 1897:553 (in catalog of world Sphecidae); Mocsáry, 1897:82 (Kingdom of Hungary, some localities are in today's Croatia and Romania); Handlirsch, 1898b:488 (Algeria); de Cobelli, 1903:113 (Italy: Province of Trentino); Mosolov, 1905b:19 (Russia: Moscow Governorate: Mikhailovskoye); Mercet, 1906a:135, 142 (in key to Spanish *Gorytes*, as *5-fasciatus*); Schmiedeknecht, 1907:219, 221 (in key to Hymenoptera of Central Europe); Ferton, 1908:558 (habitat and nest structure); Šustera, 1909:34 (Czech Republic: vicinity of Praha); Dittrich, 1911b:23 (Germany: Niederschlesien Province, now Poland: Dolny Śląsk Region); Birula, 1912:540 (Ukraine: Zhytomyr Oblast': Radomyshl'), 1914:385 (Belorussia: Ambrosovichi near Vitebsk); Bouwman, 1915:3 (Netherlands: Breda, preying on cicadellids); Zavattari, 1915:2 (Italy: Abruzzi: Vallata del Sangro); Drenowski, 1936:247 (Bulgaria); Yasumatsu, 1942c:114 (China: Nei Mongol: Apaka at 44°N 114.96°E); O. Meyer, 1919:153 (Germany: Posen Province, now Poland: Poznań Region); Dubois, 1922:201, 202, 204 (in key to Belgian Sphecidae); Maidl, 1922:71 (Croatia); Berland, 1925d:89 (in Sphecid Fauna of France); Bischoff, 1925:300 (Poland: Grajewo area); Lauterborn, 1926:7 (Germany: Baden-Württemberg: Kaiserstuhl); Benoist, 1928:409 (France: Hautes-Alpes: Le Monétier); Schmiedeknecht, 1930:681, 683 (in key to Hymenoptera of North and Central Europe); Pulkkinen, 1931:63 (in revision of Sphecidae of Finland, not yet found in Finland); Grandi, 1934:129 (Italy: Emilia-Romagna: vicinity of Bologna, and Lazio: Acilia); Blüthgen, 1937:236 (Germany: Saale River valley: Naumburg); Goebel, 1937:42 (Poland: Poznań District: Poznań-Dębina); Maidl and Klima, 1939:98 (in catalog of world Astatinae and Bembicinae); Paul, 1941:44 (Germany: Pommern: common in Central and East Pommern: no specific locality, now Poland: Województwo Zachodniopomorskie: Pomorze śródziemnomorskie i wschodnie); Giner Marí, 1943a:180 (in Sphecid Fauna of Spain); Šnoflák, 1944a:144 (Czech Republic: serpentine steppe near Mohelno); de Beaumont, 1945:475 (Switzerland); van Lith, 1947:106 (Netherlands); Balthasar, 1948:141 (Slovakia: Kovačov, Parkan); Šnoflák in Zavadil and Šnoflák, 1948:70, 72 (in key to Sphecidae of Czechoslovakia); Aerts, 1950a:51 (Germany: Nordrhein-Westfalen: Rheidter Wertchens near Köln); de Beaumont, 1951g:314 (Italy); Koornneef, 1951:245 (first record from Netherlands: Velp); Caruel, 1952a:62 (France: Marne Department); de Beaumont, 1953f:191 (in revision of western Palearctic *Gorytes*); Guiglia, 1953b:12 (Italy: Lucania-Calabria: Coloreto); de Beaumont, 1954e:89 (Italy); Grandi, 1954:233 (Italy); Aerts, 1955:62 (Germany: Rheinland); Atanassov,

1955:200 (Bulgaria: four localities); Steiner, 1955:145 (France: Dordogne); Vergne, 1955:4 (France: Auvergne); Vogrín, 1955:35 (Yugoslavia); Ceballos, 1956:384 (in catalog of Hymenoptera of Spain); Morel, Nouvel, and Ribaut, 1956:338 (France: Département des Pyrénées-Orientales); Bajári, 1957a:108, 110 (in key to Hungarian Sphecidae); Grandi, 1957:385 (Italy); Zirngiebl, 1957:181 (Germany: Rheinland-Pfalz: Birkenheide, Dürkheimer Bruch); Benno, 1958b:11 (in review of Dutch Sphecidae); Puławski, 1958a:167 (Bulgaria: Kniazhevo near Sofia); de Beaumont, 1959a:20 (Italy); Wolf, 1959b:30 (Germany: Nassau); Noskiewicz and Puławski, 1960:93, 94 (in key to Polish Sphecidae); Grandi, 1962:98 (Italy); Babiy, 1964:117 (Austria: Land Salzburg); de Beaumont, 1964c:49 (in Sphecid Fauna of Switzerland), 1965a:36 (Greece); B. Klug, 1965:136 (Germany: Baden-Württemberg: Freiburg im Breisgau area); nec Schmidt, 1966:... (= *Gorytes laticinctus*); Balthasar, M. Hrubant, and E. Hrubant, 1967:172 (Bulgaria: Slanchev Bryag near Nessebyr); Benno, 1967:34 (in checklist of Sphecidae of Netherlands); de Beaumont, 1967a:315 (Turkey); Gauss, 1967:552 (Germany: Baden-Württemberg); J. Heinrich, 1967:72 (Germany: Bayern: Unterfranken District); Niedl and Deneš, 1967:82 (Czech Republic: Třeboň area); Scobiola-Palade, 1967b:48 (Romania), 1968c:384 (Romania: Budești); Schmidt, 1969:162 (Germany: Rhein-Main area); Oehlke, 1970:691 (Democratic Germany); Lefever, 1971b:222 (Belgium: Mechelse Heide); Schmidt, 1971b:28 (Germany: Rheinland-Pfalz: Mainzer Sand); Balthasar, 1972:308 (in Sphecid Fauna of Czechoslovakia); Niedl and Deneš, 1972:153 (Czech Republic: Třeboň area); Scobiola-Palade, 1972a:150 (Romania: delta of Danube: Caraorman); Diniz, 1973:45 (Portugal: Mata do Fundão, Soalheira); Erlandsson, 1974:65 (Yugoslavia); Kazenas, 1974b:110 (feeding on flowers of *Euphorbia* spp., Euphorbiaceae, in Kazakhstan); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Kolesnikov, 1977:317 (Russia: Bryansk Oblast'); Kazenas, 1978b:75, 77 (in key to Sphecidae of Kazakhstan and Central Asia); Puławski, 1978:203 (in key to Sphecidae of European part of USSR); Benedek, 1979:230 (Hungary: Bakony Mountains); Leclercq, Gaspar and Verstraeten, 1979:map 1479 (distribution in Belgium); Lefever, 1979:11 (in checklist of Sphecidae of Netherlands), 40 (Netherlands: distribution map); Schmidt, 1979b:350 (Germany: Baden-Württemberg); Pagliano, 1980:115 (Italy: Piemonte); Dollfuss and Ressl, 1981:324 (Austria: Niederösterreich: Scheibbs District); Donath, 1982:213 (Democratic Germany: Cottbus Bezirk); Gayubo, 1982b:42 (Spain: Ávila, Cáceres, and Salamanca provinces), 1982e:106 (Spain: Cádiz Province); Skibińska, 1982:119, 123 (Poland: Mazovian Voivodship: Wola Mrokowska); Dollfuss, 1983b:23 (Austria); Chevin and Chevin, 1985:39 (France: Aude); Józan, 1985b:61 (Hungary south of Lake Balaton), 84 (ecological and zoogeographic characteristics); Lefever, 1985:87 (Netherlands: southern Limburg); Scobiola-Palade, 1985:96 (Romania: delta of Danube); Westrich and Schmidt, 1985b:111 (Germany: endangered in Baden-Württemberg); Gayubo, 1986a:65 (Spain: Ciudad Real), 1986d:120 (Spain: Zamora Province); Gayubo and Sanza, 1986:77 (Spain: Burgos, Segovia); Gayubo and Tormos, 1986a:13 (Spain: Castellón de la Plana); Józan, 1986:374 (Hungary: Kiskunság National Park); Nemkov, 1986:108 (Russia: Siberia: Irkutsk Oblast'); Schmidt and Westrich, 1987:359 (Germany: Mainz area); Asís and Jiménez, 1988:274 (Spain: Castellón Province); Dollfuss, 1988:19 (Austria: Bisamberg); Kowalczyk, 1988b:65 (Poland: environs of Łódź); Józan, 1989:102 (Hungary: Tihany Natural Reserve); Nemkov, 1989:69, 70 (in key to *Gorytes* of Siberia and Russian Far East); Pádr in Šedivy, 1989a:167 (in checklist of Czechoslovakian Sphecidae); Gayubo, Asís, and Tormos, 1990b:78 (Spain: Avila, Cáceres, Salamanca Provinces); Jacobs and Oehlke, 1990:212 (new records from Democratic Germany); Kuznetsova, 1990:19 (Russia: Voronezh Oblast': Galich'ya Gora Nature Reserve); Nemkov, 1990b:683, 684 (in key to *Gorytes* of USSR, as *quinquefasciatus quinquefasciatus*); Pádr, 1990:71 (Czech Republic: Praha area); Pagliano, 1990:71 (in catalog of Italian Sphecidae); Schwammberger and Priesner, 1990:552 (Austria: Kärtner); Day, 1991:xv (summary of European Endangered Hymenoptera Lists); Dollfuss, 1991:201 (in key to Sphecidae of North and Central Europe); Delarze, 1992:68 (Switzerland: Valais: Les Follatères); Gayubo, Borsato, and Osella, 1991:415 (Italy); Budrys, 1992:28 (in list of Sphecidae of Lithuania); Gayubo, Borsato, and Osella, 1992:288 (Greece: Tymphristos); Józan, 1992b:176 (Hungary: Boronka-melléki Protected Area); Pagliano, 1992:37, 39 (in key to Italian Bembicinae); K. Weber, 1992:87 (Germany: Bayern: Bamberg District); Józan, 1993:415 (Hungary: Bükk National Park); Gayubo and Borsato, 1994:217 (Italy: Lombardia); Jansen and Kaluza, 1995:7 (Germany: endangered in Sachsen); Negrisolo in Minelli, Ruffo, and

La Posta, 1995b:4 (in catalog of Italian fauna); Nemkov *in* Nemkov, Kazenas, Budrys, et Antropov, 1995:463, 464 (in key to Sphecidae of Russian Far East); Scharrer, 1995:29 (Austria: Niederösterreich: Donauauen; Germany: Bayern: Kahl, Mainfranken); Schmid-Egger, Risch, and Niehuis, 1995:188 (Germany: summary of records from Rheinland-Pfalz); Blösch, 1996:7 (Germany: Bayern: Tennenloher Forst Nature Reserve near Erlangen); Pawlikowski and Kruszyński, 1996:86 (Poland: Toruń Basin); Schmid-Egger, Schmidt, and Doczkal, 1996:377 (Germany: Baden-Württemberg: endangered); Voblenko, Gorobchishin, and Nesterov, 1996:15 (Ukraine: Polesye Region); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:201 (in Sphecid Fauna of Western Europe); Celary, 1997:60 (in checklist of Animals of Poland); Schmidt and Schmid-Egger, 1997:15 (in checklist of German Sphecidae); Stoyanov and Ljubomirov, 1997:27 (Bulgaria: Rila Mountains); F. Burger, Saure, and Oehlke, 1998:28 (Germany: in list of Sphecidae of Brandenburg); Dollfuss, Gusenleitner, and Bregant, 1998:523 (Austria: summary of collecting records from Burgenland); Flügel, 1998:60 (Germany: Brandenburg: Unteres Odertal National Park); Gorobchishin, 1998a:50 (Ukraine: Kiev and surroundings, as *quinquefasciatus quinquefasciatus*); K. Weber, 1998:141 (Germany: Bayern: Bamberg area); Anan'eva and Kochetkov, 1999:7 (Russia: Ryazan Oblast': no specific locality); W. Klein, 1999:23 (in improved key to male *Gorytes* of Benelux); Neumayer, Schwarz, and Bregant, 1999:224 (Austria: in checklist of Sphecidae of Land Kärnten); Pauly, 1999:111 (in catalog of Belgian aculeates); M. Schwarz, 1999:88 (Austria: Oberösterreich: city of Linz area); Blösch, 2000:384 (in Sphecid Fauna of Germany); Dressler, 2000:32 (Germany: Hessen: Darmstadt area); Esenbekova and Kazenas, 2000:61 (southeastern Kazakhstan: near Alma Ata, 5 km south, 6 km southwest, and 20-23 km west of Alma Ata, 3-8 km south of Talgar, 3 km southwest of Temirbastau); Giachino, Grossi, Marchetti, Pagliano, Scaramozzino, and Vailati, 2000:109 (Greece); González, Gayubo, and Tormos, 2000:21 (Andorra: Santa Coloma); Vicedomini, 2000b:24 (Italy: previously recorded from Campania); Józan, 2001:281 (Hungary: Somogy County); Kazenas, 2001b:46 (in checklist of Sphecidae of Kazakhstan and Central Asia); Kazenas and Esenbekova, 2001:135 (Kazakhstan: Almatinskiy Nature Reserve); Ohl et al., 2001:139 (distribution in Germany by provinces); van der Smissen, 2001:61 (Germany: Schleswig-Holstein: extinct); Wolf, 2001a:171 (Germany: Bayern: Lech valley from Augsburg to Donau); Zettel, Gross, and Mazzucco, 2001:80 (Austria: Wien); Józan, 2002:54 (Hungary: Mecsek Mountains); Kazenas, 2002a:121 (geographic distribution, collecting localities in Kazakhstan); Schmid-Egger, 2002b:182 (in revision of western Palearctic *Gorytes*); Shlyakhtenok and Skibinska, 2002:35 (Belorussia: no specific locality); Venne and Bleidorn, 2002:10 (Germany: Nordrhein-Westfalen: Moosheide Nature Reserve); Drewes, 2003:138 (Hungary: Hortobagy); Mandery, Kraus, Voith, Wickl, Scheuchl, Schubert, and Warncke, 2003:66 (Germany: in catalog of wasps and bees of Bayern); Nieves-Aldrey, Fontal-Cazalla, Garrido-Torres, and Rey del Castillo, 2003:42 (Spain: Madrid: Estación Biogeológica de El Ventorrillo in Sierra de Guadarrama); Schmid-Egger, 2003:753 (Italy: Sicilia: six localities); Wickl, Voith, Mandery, Weber, Kraus, Bausenwein, and Blösch, 2003:195 (Germany: Bayern: no longer endangered); Dathe and Blank, 2004:181 (Germany: Nordrhein-Westfalen, addition to Ohl et al., 2001); Deván, 2004:147 (western Slovakia); Esser, Jakubzik, and Sonnenburg, 2004:18 (Germany: Nordrhein-Westfalen); Esser, Jakubzik, Sonnenburg, and Woydak, 2004:262 (Germany: in checklist of Sphecidae of Nordrhein-Westfalen); Gayubo et al. 2004:130 (Spain: Madrid: Estación Biogeológica de El Ventorrillo in Sierra de Guadarrama); Klein and Lefeber *in* Peeters, van Achterberg, et al., 2004:388 (in Wasp and Ant Fauna of Netherlands); Skibińska *in* Bogdanowicz, Chudzicka, Pilipiuk, and Skibińska, 2004:355 (in catalog of Polish Crabronidae); Stolle et al., 2004:371 (Germany: Sachsen-Anhalt: in red list of Sphecidae); van Achterberg and Peeters, 2004:32 (in checklist of Sphecidae of Netherlands); Wiśniowski, 2004:51 and 62 (in checklist of Polish Sphecidae); Blösch, 2005:8 (Germany: Bayern: Tennenloher Forst Nature Reserve near Erlangen); Burger, 2005:33 (Germany: Thüringen); Gayubo and Özbek, 2005:18 (Turkey: Erzurum: University campus, Ýspir); Jacobs, 2005a:446 (Bulgaria); Mandery, 2005:174 (Germany: Bayern: Hainberg Nature Reserve near Nürnberg); Pagliano and Negrisolo, 2005:146 (in Sphecid Fauna of Italy); Reder, 2005:950 (Germany: Rheinland-Pfalz: Eisenberg); Saure, 2005:16 (Germany: Berlin); Shorenko, 2005a:167 (Ukraine: Crimea, as *quinquefasciatus quinquefasciatus*), 2005b:98 (Ukraine: Crimea: Karadagh Nature Reserve,

as *quinquefasciatus quinquefasciatus*); Straka, 2005a:394 (extinct in Czech Republic); Theunert, 2005a:17 (Germany: in checklist of Sphecidae of Niedersachsen and Bremen); Venne and Bleidorn, 2005:43 (Germany: Nordrhein-Westfalen: Moosheide Nature Reserve); Gorobchishin, 2006:140 (Ukraine: Kyiv); Liebig, 2006:38 (Germany: Sachsen: Muskauer Heide); Ljubomirov, 2006:540 (Bulgaria: earlier records from Rhodope Mountains summarized, as *quinquefasciatus quinquefasciatus*); Jacobs, 2007:174, 177 (in key to Crabronidae of Germany); Saure, 2007:82 (Germany: in checklist of Aculeata of Land Brandenburg); Theunert, 2007c:96 (Germany: Niedersachsen: Braunschweig); G. Turrisi and R. Turrisi, 2007:116 (Italy: Sicilia: Mount Etna: Botanical Garden Nuova Gussonea and vicinity); Vepřek and Straka, 2007:208 (in catalog of Sphecidae of Czech Republic and Slovakia); Yıldırım and Ljubomirov, 2007:118 (Turkey: Artvin and Erzurum provinces); Gayubo, González, Tormos, and Asís, 2008:137 (Spain: Salamanca: Parque Natural de Las Batuecas–Sierra de Francia); Ljubomirov and Yıldırım, 2008:82 (in catalog of Crabronidae of Turkey); Nemkov, 2008b:24 (in catalog of Crabronidae of Asiatic Russia); Theunert, 2008:41 (Germany: map of distribution in Niedersachsen and Bremen); Baños-Picón, Asís, Gayubo, and Tormos, 2009:311 (Spain: frequency of specimens collected with hand nets and Malaise traps); U. Frommer, 2009a:27 (Germany: in checklist of Sphecidae of Hessen); Gayubo, González, Tormos, and Asís, 2009:364 (Spain: Valladolid: Reserva Natural Riberas de Castronuño – Vega del Duero); González, Gayubo, Asís, and Tormos, 2009:625 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park); Guéorguiev and Ljubomirov, 2009:262 (Bulgaria: Maleshevská Planina); Józan, 2009:166 (Croatia: 3 km north of Brseč); Kowalczyk, Kurzac, and Nadolski, 2009:62 (Poland: between Warta and Widawka rivers); Nemkov, 2009b:137 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); Pagliano, 2009:178 (Italy: Molise: Campolieto, Guardalfiera); Ruchin, Antropov, and Shibayev, 2009:170 (Russia: Republic of Mordovia); Shoreiko, 2009:368 (in list of Sphecidae *sensu lato* of Crimea); Bitsch, 2010:113 (in supplement to vol. II of Faune de France, 1997: recent record from Corsica reported); Burguet in Durand and Burguet, 2010:35 (France Département d'Ardèche: Ardèche Gorges); Esser, Fuhrmann, and Venne, 2010:36 (Germany: in checklist of aculeates of Nordrhein-Westfalen); Hable, Krauss, von der Dunk, and Wickl, 2010:27 (Germany: Bayern: Sulz- and Ottmaringer Tal); Mokrousov, 2010a:61 (Russia: Nizhniy Novgorod and Vladimir Oblast's, Chuvash Republic, Mordovian Republic: no specific localities); Saure, 2010b:175 (Germany: Berlin-Reinickendorf: airport Tempel and Flughafensee Protected Area); Schmid-Egger, 2010a:16 (in red list of Aculeata of Germany: rare); Smetana, Roller, Beneš, Bogusch, Dvořák, Holý, Karas, Macek, Straka, Šima, Tyrner, Vepřek, and Zeman, 2010:89 (Western Slovakia: Borská Nížina), 101 (Western Slovakia: recorded from Borská Nížina); van der Smissen, 2010b:384 (France: Drôme: Dieulefit; Vaucluse Bédoin, Le Beaucet-Venansque); Bogusch, Straka, Macek, Dvořák, Vepřek, and Říha, 2011:94 (Czech Republic: Moravia: Mikulov); Burger, 2011a:287 (Germany: in red list of Sphecidae *sensu lato* of Thüringen); Cruz-Sánchez, Asís, Gayubo, Tormos, and González, 2011:500 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park: effects of wildfire), 501 (exclusive species of control areas); Gogala, 2011:28 (Slovenia); Józan, 2011:183 (in checklist of Sphecidae *sensu lato* of Hungary); Mokrousov, Berezin, and Egorov, 2011:67 (Russia: Chuvash Republic); Rudoiskatel', 2011a:66 (Russia: Perm' Oblast': Okhansk), 2011d:240 (Russia: central Ural Mountains); Saure, 2011a:6 (Germany: Berlin: former airport Tempelhof), 2011c:198 (Germany: Berlin-Spandau: Fort Hahneberg); Shlyakhtenok, 2011:95 (Belorussia: city of Minsk); Theunert, 2011a:20 (Germany: in checklist of aculeates of Niedersachsen including city of Bremen); Boillat, 2012:227 (Switzerland: in checklist of insects of Canton de Genève); Nemkov, 2012c:446 (in catalog of Crabronidae of Russian Far East); Saure, 2012b:229 (Germany: Berlin-Spandau: Spandauer Forst); Strumia, Pagliano, and Gayubo, 2012:56 (Italy: Toscana: Riserva di San Rossore); Bayındır, Gürbüz, Ljubomirov, and Pohl, 2013:146 (Turkey: Isparta: Kasnak Oak Forest Nature Reserve); Kazenas, 2013b:497 (southeastern Kazakhstan: foothills, low mountains, Ili River valley); A. Scholz and Liebig, 2013:20 (Germany: Sachsen: in list of Sphecidae *sensu lato*); Shlyakhtenok, 2013:234 (in annotated catalog of aculeate wasps of Belorussia); Vieira, Oliveira, Brewster, and Gayubo, 2013:15 (Portugal: Douro International Natural Park); Wiśniowski and Szczepko, 2013:35 (Poland: Kampinos National Park near Warszawa); Bitsch, 2014:398 (France: Ardèche: Saint-Remèze); Flügel, 2014:254 (Brandenburg: Hangelsberger Heide); Mokrousov and Vafin, 2014:55

(Russia: Republic of Tatarstan); Protsenko, Fateryga, and Ivanov, 2014:31 (Crimea: Opuksk Nature Reserve); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); P. Rosa and Pagliano, 2015:101 (Italy: Lombardia and Piemonte: Parco del Ticino); Saure, 2015:13 (Germany: Berlin-Lichterfelde); Shorenko, 2015:338 (in list of Sphecidae *sensu lato* of Crimea); Lett, 2016:135 (France: Loir-et-Cher: Gièvres at 47°16'39"N 1°41'52"E); Mokrousov and Popov, 2016:568 (Russia: Krasnodarskiy Kray); Stolle and Saure, 2016:923 (Germany: in list of Sphecidae *sensu lato* of Sachsen-Anhalt); Yıldırım, Ljubomirov, Özbel, and Yüksel, 2016:14 (Turkey: Erzurum: Pazaryolu: Ku-maşkaya, as *quinquefasciatus quinquefasciatus*); Nemkov, 2017a:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:223 (in catalog of Bembicinae of Russia, as *quinquefasciatus quinquefasciatus*); Shorenko, 2017:80 (in Crimea collected in June); Twerd, Krzyżynski, Waldon-Rudzinek, and Olszewski, 2017:6 (Poland: Inowrocław and Janikowo: nesting in postindustrial soda ash dumping sites); JacLett, 2018:203 (France: Loir-et-Cher: Gièvres at 47°16'39"N 1°41'52"E); obs and Liebig, 2018:142 (Russia: Irkutsk Oblast': Bol'shoye Goloustnoye and Ust'-Ordynski steppe; Primorskiy Kray: Poshiga); Shorenko, 2018:130 (Crimea, including localities, habitats, and number of specimens); Carminati, Mora, and Cretin, 2019:10 (France: in list of Sphecidae *sensu lato* of Franche-Comté); Mokrousov, Proshchalykin, Aliyev, and Maharramov, 2019:12 (Azerbaijan: Nakhichevan Autonomous Republic); Olszewski and Kowalczyk, 2019:100 (northern Poland: Pomorze Gdańskie = Gdańsk Pomerania); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:246 (in Sphecid Fauna of Europe); Saure, 2020:276 (Germany: Sachsen-Anhalt: sand dunes); Shorenko, 2020:50 (Crimea: Karadag Nature Reserve); Cross, Baldoock, and Wood, 2021:26 (in catalog of Sphecidae *sensu lato* of Portugal); Danilov, Odintseva, and Odintsev, 2021:22 (Russia: Omsk Oblast'); Kaplan and Yıldırım, 2021:33 (in catalog of Crabronidae of Turkey); Mokrousov and Proshchalykin, 2021b:177 (in key to Palearctic *Gorytes*); Olszewski, Wiśniowski, and Ljubomirov, 2021:91 (in commented list of Sphecidae *sensu lato* of Poland); Can, 2022a:222 (supernumerary vein in forewing), 223 (supernumerary discoidal cell); Pytel-Huta, Skyrpan, Tsaryk, Shydlovskyy, and Khamar, 2022:54 (western Ukraine); Kaplan and Yıldırım, 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

Hoplisus lacordairei Lepeletier de Saint Fargeau, 1832:64, ♂ (as *Lacordairei*, incorrect original capitalization). Holotype: ♂, France: Paris (M. Spinola collection, Torino). Synonymized with *Gorytes quinquefasciatus* by Handlirsch, 1888b:486. – Wesmael, 1839:77 (unknown to author, as *Lacorderei*); Lepeletier de Saint Fargeau, 1845:64 (in revision of world Hymenoptera); Acloque, 1897:83 (in Sphecid Fauna of France and Algeria); de Beaumont, 1953f:200 (discussion of identity); Bradley, 1957:48 (Lepeletier's specimens in M. Spinola collection, Turin); Casolari and Casolari Moreno, 1980:121 (specimens in M. Spinola collection, Torino); Pagliano, 2014:87 (specimens in M. Spinola collection, Torino, is *Gorytes planifrons*). – As *Gorytes lacordairei*: F. Smith, 1856:362 (new combination, in catalog of Hymenoptera in British Museum).

Hoplisus anceps Mocsáry, 1879:133, ♀, ♂. Syntypes: Hungary: Budapest, Nagyvárad; Romania: Mehadia (TMB). Synonymized with *Gorytes quinquefasciatus* by Handlirsch, 1888b:486. – Haris, 2016:16 (in list of species described by S. Mocsáry from Carpathian Basin).

Hoplisus quinquecinctus varietas *geminatus* A. Costa, 1867c:63, ♀. Syntypes: ♀, Italy: Sicilia: no specific locality (Napoli). Synonymized with *Gorytes quinquefasciatus* by R. Bohart and Menke 1976:501. – Šnoflák in Zavadil and Šnoflák, 1948:72 (in key to Sphecidae of Czechoslovakia).

Hoplisus quinquecinctus varietas *geminatus* A. Costa, 1869b:79, ♀. Objective synonym of *Hoplisus quinquecinctus* varietas *geminatus* A. Costa, 1867c:63.

As *Gorytes maculicornis*: Yıldırım and Ljubomirov, 2005:1792 (Turkey: Erzurum: İlica: Çataldere, Rizekent, and Tor-tum), corrected to *Gorytes quinquefasciatus* by P. Nemkov in Yıldırım and Ljubomirov, 2007:118.

ssp. *eburneus* (Chevrier)

Hoplisus eburneus Chevrier, 1870:270, ♂, ♀. Syntypes: Switzerland: Vaud: Nyon (MHNG). – Gasperini, 1887:17 (Dalmatia: Island of Lesina, now Croatia: Island of Hvar). – As *Gorytes eburneus*: Kohl, 1880:172 (new combination,

Austria: Tirol: Greut, Mühlau, Mutters), 227 (redescription of ♂), 1883e:667 (Switzerland); Handlirsch, 1888b:486 (as new synonym of *Gorytes quinquefasciatus*); R. Bohart and Menke, 1976:501 (as synonym of *Gorytes quinquefasciatus*). – As *Gorytes quinquefasciatus eburneus*: de Beaumont, 1953f:191 (new status, in revision of western Palearctic *Gorytes*).

ssp. *intercedens* Handlirsch

Gorytes intercedens Handlirsch, 1893b:281, ♂. Holotype: ♂, Spain: Madrid (MNCN). – Handlirsch, 1895:930 (original description copied); Dalla Torre, 1897:543 (in catalog of world Sphecidae); Mercet, 1906a:121 (description of ♀), 135, 140, and 141 (in key to Spanish *Gorytes*); Maidl and Klima, 1939:50 (in catalog of world Astatinae and Bembicinae); Giner Marí, 1943a:180 (in Sphecid Fauna of Spain); Ceballos, 1956:382 (in catalog of Hymenoptera of Spain); R. Bohart and Menke, 1976:501 (as synonym of *Gorytes quinquefasciatus*). – As *Gorytes quinquefasciatus intercedens*: de Beaumont, 1953f:191 (new status, in revision of western Palearctic *Gorytes*); Ceballos, 1959:229 (in supplement to catalog of Spanish Sphecidae); de Beaumont, 1962b:24 (Spain); Ceballos, 1964:92 (in supplement to catalog of Spanish Sphecidae); Suárez, 1969:30 (Spain: Almería Province).

ssp. *levantinus* Pulawski

Gorytes quinquefasciatus levantinus Pulawski, 1961b:93, ♀, ♂. Holotype: ♀, Lebanon: Becharré (originally W.J. Pulawski coll., now CAS). Paratype: Syria. – R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Nemkov, 1990b:683, 684 (in key to *Gorytes* of USSR), 685 (Lebanon, Syria, Turkey, Kazakhstan, Kyrgyzstan, Tajikistan, Uzbekistan); Yildirim and Ljubomirov, 2005:1792 (Turkey: Erzurum Province), 2007:121 (discussion of status); Yildirim, Ljubomirov, Özbek, and Yüksel, 2016:14 (Turkey, doubt the validity of this subspecies).

ssp. *mauritanicus* Handlirsch

Gorytes quinquefasciatus var. *mauritanicus* Handlirsch, 1898:489, ♂, ♀ (as *mauritanica*, incorrect original termination). Syntypes: Algeria: El Kantour (NHMW) – Maidl and Klima, 1939:94 (in catalog of world Astatinae and Bembicinae, as *mauretanica*); R. Bohart and Menke, 1976:501 (as synonym of *Gorytes quinquefasciatus*, as *mauretanicus*). – As *Gorytes quinquefasciatus mauritanicus*: de Beaumont, 1953f:195 (new status, in revision of western Palearctic *Gorytes*), 1953g:114 (Morocco).

59. *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); Nemkov and Pulawski, 2009:9 (reverted to *Gorytes*, in cladistic analysis of Gortytina). – As *Pseudoplisis ranosahae*: R. Bohart in R. Bohart and Menke, 1976:503 (new combination); Leclercq, 1990b:119 (Madagascar); Callan, 1991d:1612 (nesting habits); Pulawski, 2003b:796 (in checklist of Malagasy Sphecidae); Evans and O’Neil, 2007:57 (summary of information on nesting habits); Madl, 2014a:945 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Malagasy subregion, with synonymy and locality records).

60. *rubiginosus* Handlirsch

Gorytes rubiginosus Handlirsch, 1888b:502, ♀, ♂ Syntypes: Mexico: Morelos: Cuernavaca (NHMW). – Cameron, 1890a:77 (bibliographic reference); Dalla Torre, 1897:553 (in catalog of world Sphecidae); Maidl and Klima, 1939:113 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisis*); Nemkov and Pulawski, 2009:9 (reverted to *Gorytes*, in cladistic analysis of Gortytina). – As *Pseudoplisis rubiginosus*: Ashmead, 1899:328 (new combination, in checklist of North American Crabronidae); R. Bohart, 1969b:394 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Dollfuss, 1989:12 (type material in NHMW); Amarante, 2002:17 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae).

61. *rufomaculatus* (W. Fox)

Gorytes rufomaculatus W. Fox, 1896a:538, ♀, ♂. Lectotype: ♀, USA: Dakota: no specific locality (ANSP), designated by Cresson, 1928:48. – Maidl and Klima, 1939:113 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisis*); Krombein in Muesebeck, Krombein, and Townes, 1951:993 (in catalog of North American Hymenoptera); Nemkov and Pulawski, 2009:9 (reverted to *Gorytes*, in cladistic analysis of Gorytina). – As *Pseudoplisis rufomaculatus*: H. Smith, 1908b:349 (new combination, in revision of Nebraskan Sphecidae); Mickel, 1918b:358 (in catalog of Nebraskan Sphecidae); R. Bohart, 1969b:394 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1696 (in catalog of North American Hymenoptera); Hook, 1998:252 (first record from Texas: Dimmit County: Chaparral Wildlife Management Area).

62. *samiatus* (R. Bohart)

Pseudoplisis samiatus R. Bohart, 1969b:396, ♀, ♂. Holotype: ♂, Mexico: Jalisco: 3 mi. southeast of Plan de Barrancas (UCD). – R. Bohart, 1969b:393 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Amarante, 2002:17 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae). – As *Gorytes samiatus*: Nemkov and Pulawski, 2009:7 (new combination, in cladistic analysis of Gorytina).

63. *schlettereri* Handlirsch

Gorytes schlettereri Handlirsch, 1893b:281, ♀ (as *Schlettereri*, incorrect original capitalization). Holotype: ♀, Austria: Tirol: Reschen Pass, now Italy: Trentino–Alto Adige: Resia (NHMW). – Handlirsch, 1895:925 (original description copied); Dalla Torre, 1897:554 (in catalog of world Sphecidae); Schmiedeknecht, 1907:220 (in key to Hymenoptera of Central Europe); Kohl, 1912a:63 (Austria: Südtirol: Reschen, now Italy: Trentino-Alto Adige Region: Resia); Schmiedeknecht, 1930:682 (in key to Hymenoptera of North and Central Europe); Maidl and Klima, 1939:99 (in catalog of world Astatinae and Bembicinae); de Beaumont, 1939:487 (Switzerland; description of ♂); Carl and de Beaumont, 1947:68 (Switzerland: Graubünden = Grisons Canton: Swiss National Park); Šnoflák in Zavadil and Šnoflák, 1948:70 (in key to Sphecidae of Czechoslovakia, not yet found in Czechoslovakia); de Beaumont, 1953f:175 (in revision of western Palearctic *Gorytes*), 1958c:204 (Swiss National Park), 1964c:48 (in Sphecid Fauna of Switzerland); Romanova, 1969:133 (Russia: Caucasus Nature Reserve); Noskiewicz and Puławski, 1960:91, 94 (in key to Polish Sphecidae, not yet found in Poland); Balthasar, 1972:307 (in Sphecid Fauna of Czechoslovakia: not yet found in country); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Pulawski, 1978:202, 203 (in key to Sphecidae of European part of USSR); Pagliano, 1980:116 (Italy: Piemonte); Dollfuss, 1983b:23 (records from Austria questionable), 1989:9 (type material in NHMW); Pagliano, 1990:71 (in catalog of Italian Sphecidae); Dollfuss, 1991:201 (in key to Sphecidae of North and Central Europe); Pagliano, 1992:37, 39 (in key to Italian Bembicinae); Negrisolo in Minelli, Ruffo, and La Posta, 1995b:4 (in catalog of Italian fauna); Blösch, 2000:385 (in Sphecid Fauna of Germany); Schmid-Egger, 2002b:184 (in revision of western Palearctic *Gorytes*); Gayubo and Özbek, 2005:18 (Turkey: Ardahan: Hanak; Artvin: Borçka); Pagliano and Negrisolo, 2005:146 (in Sphecid Fauna of Italy); Jacobs, 2007:173, 177 (in key to Crabronidae of Germany, not yet found in Germany); Pagliano, 2009:178 (Italy: recorded from Trentino-Alto Adige by Schmid-Egger, 2002); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); Mokrousov and Popov, 2016:568 (Russia: Krasnodarskiy Kray); Nemkov, 2017:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:247 (in Sphecid Fauna of Europe); Mokrousov and Proshchalykin, 2021b:175, 177 (in key to Palearctic *Gorytes*).

ssp. *ponticus* de Beaumont

Gorytes schlettereri ponticus de Beaumont, 1967a:314, ♀, ♂. Holotype: ♀, Turkey: Trabzon: Zigana Dagi (BMNH). – R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Dathe, 1980:208 (Russia: northern Caucasus: Teberda); Nemkov, 1990b:680, 685 (in key to *Gorytes* of USSR), 688 (Georgia); Yıldırım and Ljubomirov, 2005:1792 (Turkey: Artvin: Savşat); Ljubomirov and Yıldırım, 2008:83 (in catalog of Crabronidae of Turkey);

Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces), 19 (is an endemic of Turkey); Yıldırım, Ljubomirov, Özbek, and Yüksel, 2016:14 (Turkey: Rize: İkizdere: Sivrikaya); Kaplan and Yıldırım, 2021:33 (in catalog of Crabronidae of Turkey), 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

64. *schmidti* Schmid-Egger

Gorytes schmidti Schmid-Egger, 2002b:185, ♀, ♂. Holotype: ♂, Turkey: Karadut in Nemrut Dagi at 37°57'N 38°40'E (OÖLM). – Schwarz-Waubke, Schwarz, F. Gusenleitner, J. Gusenleitner, Malicky, Malicky-Ruzicka, and Vogtenhuber, 2003:446 (paratype in Biologiezentrum, Linz, Austria); Ljubomirov and Yıldırım, 2008:83 (in catalog of Crabronidae of Turkey); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces), 19 (is an endemic of Turkey); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); Nemkov, 2017:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae); Mokrousov, Proshchalykin, Aliyev, and Maharramov, 2019:12 (Azerbaijan: Nakhichevan Autonomous Republic); Kaplan and Yıldırım, 2021:33 (in catalog of Crabronidae of Turkey); Mokrousov and Proshchalykin, 2021b:175 (in key to Palearctic *Gorytes*); Kaplan and Yıldırım, 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

65. *schmiedeknechti* Handlirsch

Gorytes schmiedeknechti Handlirsch, 1888b:492, ♂ (as *Schmiedeknechti*, incorrect original capitalization). Lectotype: ♂, Greece: Parnassus (NHMW), designated by de Beaumont, 1953f:181. – Dalla Torre, 1897:554 (in catalog of world Sphecidae); Maidl and Klima, 1939:99 (in catalog of world Astatinae and Bembicinae); Ceballos, 1949:101 (Spain); de Beaumont, 1953f:180 (in revision of western Palearctic *Gorytes*); Ceballos, 1956:384 (in catalog of Hymenoptera of Spain); de Beaumont, 1965a:36 (Greece), 1967a:313 (Turkey; description of ♀); Balthasar, 1972:308 (in Sphecid Fauna of Czechoslovakia: not yet found in country); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Dollfuss, 1989:9 (type material in NHMW); Nemkov, 1990b:680, 685 (in key to *Gorytes* of USSR), 688 (Azerbaijan); Schmid-Egger, 2002b:184 (in revision of western Palearctic *Gorytes*); Gayubo and Özbek, 2005:18 (Turkey: Erzurum: Olur, Oltu); Yıldırım and Ljubomirov, 2005:1792 (Turkey: Artvin and Erzurum provinces); Standfuss and Standfuss, 2006c:305 (Greece: Thessalia: Magnisia Peninsula at 39°N 23°E); Ljubomirov and Yıldırım, 2008:83 (in catalog of Crabronidae of Turkey); Bitsch, 2010:113 (in supplement to vol. II of Faune de France, 1997: not included in the volume, but occurring in Bulgaria and Greece); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); Mokrousov and Popov, 2016:568 (Russia: Krasnodarskiy Kray); Yıldırım, Ljubomirov, Özbek, and Yüksel, 2016:15 (Turkey: Antalya and Erzurum provinces); Nemkov, 2017a:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae); 2017b:223 (in catalog of Bembicinae of Russia); Eroğlu and Yüksel, 2019:5230 (recorded from Niğde Province of Turkey by de Beaumont, 1967, but not rediscovered since then); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:247 (in Sphecid Fauna of Europe); Fresno, 2021:80 (Spain: Madrid: Galapagar, Madrid, Sierra de Guadarrama); Kaplan and Yıldırım, 2021:33 (in catalog of Crabronidae of Turkey); Mokrousov and Proshchalykin, 2021b:176, 177 (in key to Palearctic *Gorytes*); Kaplan and Yıldırım, 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

66. *simillimus* F. Smith

Gorytes simillimus F. Smith, 1856:367, ♀. Holotype or syntypes: ♀, Canada: Nova Scotia: no specific locality (BMNH). – Cresson, 1862:235 (in catalog of North American Hymenoptera); Packard, 1867:428 (in revision of North American aculeates); Cresson, 1887:280 (in catalog of North American Hymenoptera); Handlirsch, 1888b:500 (in revision of world Bembicinae), 1895:926 (reference to Provancher, 1888); W. Fox, 1896a:536 (in revision of North American *Gorytes*); Dalla Torre, 1897:554 (in catalog of world Sphecidae); J. Smith, 1900:521 (in list of insects of New Jersey), 1910:680 (in new list of insects of New Jersey); J.Ch. Bradley, 1928:1015 (in catalog of New York Sphecidae); Krombein, 1936:93 (prey: *Gypona octolineata* var. *striata* Burm., a cicadellid); Brimley, 1938:446 (North Carolina: Benson, Raleigh); Maidl and Klima, 1939:102 (in catalog of world Astatinae and Bembicinae); Strickland, 1947:126

(Canada: Alberta: Red Deer, Saint Paul); Krombein, 1951a:143 (Virginia: Dunn Loring; visiting tulip-tree honeydew); Krombein *in Muesebeck*, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera); Krombein, 1952a:95 (Virginia: Westmoreland State Park; nesting behavior), 1952b:181 (West Virginia: Lost River State Park), 1954a:6 (West Virginia: Lost River State Park); Kurczewski and Kurczewski, 1963:147 (Pennsylvania: Presque Isle State Park); Evans, 1966d:66 (nesting behavior); Kurczewski and Kurczewski, 1971b:336 (prey record); G. Bohart, Nye, and Hawthorn, 1970:48 (Utah: Logan, onion pollinator); Horning and Barr, 1970:105 (USA: Idaho: Craters of the Moon National Monument); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Krombein, 1979b:1694 (in catalog of North American Hymenoptera, list of prey); Finnimore, 1982:221 (in Sphecid Fauna of Southern Quebec); Radović, 1985:65 (sting apparatus analyzed); Ahlstrom, 1995:112 (in checklist of insects of North Carolina); Kurczewski, 1998d:250 (pine barrens in upstate New York); Wcislo, 1998:181 (proportions of antennae in relations to parasitic/non-parasitic behavior); Buck, 2004:27 (Canada: in checklist of Crabronidae of Ontario); Evans and O'Neil, 2007:56 (summary of information on nesting habits); Nemkov, 2012b:120 (review of known prey); Ratzlaff, 2016:24 (Canada: British Columbia: after Buck, 2004). – As *Hoplisus simillimus*: Ashmead, 1899d:328 (new combination, in checklist of North American Crabronidae); Harrington, 1902:223 (new combination, Canada: Ontario: Ottawa); H. Smith, 1908b:345 (in revision of Nebraskan Sphecidae); Mickel, 1918b:356 (in catalog of Nebraskan Sphecidae); J.Ch. Bradley, 1926:175 (New York: Lloyd-Cornell Reservation near McLean).

Gorytes ephippiatus Packard, 1867:426, ♂. Lectotype: ♂, USA: Illinois: no specific locality (ANSP), designated by Cresson, 1928:47. Synonymized with *Gorytes simillimus* by Handlirsch, 1888b:500. – Provancher, 1883b:637 (in revision of Canadian Hymenoptera); Faull, 1913:384 (Canada: Toronto region). – As *Hoplisus ephippipatus*: Cresson, 1887:279 (new combination, in catalog of North American Hymenoptera).

Gorytes gyponacinus Rohwer, 1911b:568, ♀, ♂. Holotype: sex not stated, USA: District of Columbia: Washington (USNM). Synonymized with *Gorytes simillimus* by Krombein, 1958f:194 and by R. Bohart *in* R. Bohart and Menke, 1976:501. – Maidl and Klima, 1939:112 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisisus*); Krombein *in Muesebeck*, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera).

67. *smithii* Cresson

Gorytes smithii Cresson, 1880b:xviii, ♀, actually ♂ (W. Fox, 1896a:537) (as *Smithii*, incorrect original capitalization). Lectotype: ♀, USA: Illinois: no specific locality (ANSP), designated by Cresson, 1916:98. – Cresson, 1887:280 (in catalog of North American Hymenoptera); Handlirsch, 1888b:531 (original description translated into German); W. Fox, 1896a:537 (in revision of North American *Gorytes*); Dalla Torre, 1897:554 (in catalog of world Sphecidae); Maidl and Klima, 1939:113 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisisus*); Krombein *in Muesebeck*, Krombein, and Townes, 1951:993 (in catalog of North American Hymenoptera); Nemkov and Puławski, 2009:9 (reverted to *Gorytes*, in cladistic analysis of Gorytina). – As *Pseudoplisisus smithii*: Ashmead, 1899:328 (new combination, in checklist of North American Crabronidae); H. Smith, 1908b:350 (in revision of Nebraskan Sphecidae); R. Bohart, 1969b:394 (in key to North American *Pseudoplisisus*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1696 (in catalog of North American Hymenoptera); Ahlstrom, 1995:112 (in checklist of insects of North Carolina); Hook, 1998:252 (first record from Texas: Travis County: Austin; and Kansas: Lawrence).

Pseudoplisisus infumatus Mickel, 1916a:402, ♂. Holotype: ♂, USA: Nebraska: Haigaler (UNL). Synonymized with *Gorytes smithii* by Krombein *in Muesebeck*, Krombein, and Townes, 1951:993. – Mickel, 1918b:357 (in catalog of Nebraskan Sphecidae); Maidl and Klima, 1939:112 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisisus*); Muma, 1952:22 (type in UNL), 28 (paratypes in UNL).

ssp. *floridanus* (W. Fox)

Hoplisus foveolata W. Fox, 1890:106, ♀, incorrect original termination, junior secondary homonym of *Gorytes foveolatus* Handlirsch, 1888. Syntypes: ♀, USA: Florida: no specific locality (ANSP).

Gorytes floridanus W. Fox, 1891e:196. Substitute name for *Gorytes foveolatus* (W. Fox, 1890). – W. Fox, 1891c:196 (explanation for proposing substitute name); Handlirsch, 1895:945 (original description translated into German); W. Fox, 1896a:537 (in revision of North American *Gorytes*); Dalla Torre, 1897:542 (in catalog of world Sphecidae); Brimley, 1938:446 (North Carolina: Raleigh); Maidl and Klima, 1939:112 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisis*); Krombein in Muesebeck, Krombein, and Townes, 1951:992 (listed); Krombein, 1952a:951 (USA: Virginia: Westmoreland State Park), 1958f:195 (in supplement to catalog of North American Hymenoptera: Maryland, Virginia, Louisiana). – **As *Pseudoplisis floridanus***: Ashmead, 1899:328 (new combination, in checklist of North American Crabronidae); H. Smith, 1908b:350 (in revision of Nebraskan Sphecidae). – **As *Pseudoplisis smithii floridanus***: R. Bohart and Menke, 1976:503 (new status, in checklist of world Sphecidae); Krombein, 1979b:1696 (in catalog of North American Hymenoptera).

68. *sulcifrons* (A. Costa)

Hoplisus sulcifrons A. Costa, 1867c:65, ♀. Holotype or syntypes: ♀, Italy: Sardegna: no specific locality (Napoli). – A. Costa, 1883:57 (Italy: Sardegna: Tissi), 91 (description of ♂); de Gaulle, 1908:120 (in catalog of French Hymenoptera); Schneid, 1941:1041 (Germany: Bayern: Bamberg area); de Beaumont, 1953i:4 (study of type). – **As *Gorytes sulcifrons***: Handlirsch, 1888b:498 (new combination, in revision of world Bembicinae); Kohl, 1888b:728 (Austria: Tirol, now Italy: Alto Adige); F. Morawitz, 1893b:421 (Tajikistan: Kol in Yagnob River valley), 1894:358 (Turkmenistan: Hodja-kala); Handlirsch, 1895:925 (Hungary, Italy, Armenia, Spain, Turkmenistan, Uzbekistan); Dalla Torre, 1897:555 (in catalog of world Sphecidae); Mocsáry, 1897:82 (Hungary: Budapest); Handlirsch, 1898b:489 (Algeria: Oran; Egypt: Helwan); de Cobelli, 1903:113 (Italy: Province of Trentino); Antiga and Bofill, 1904:17 (Spain: Cataluña Province); W. Schulz, 1904b:97 (France: Alpes-Maritimes); Ferton, 1905:71 (prey); W. Schulz, 1905b:44 (Algeria); Dusmet y Alonso, 1906:7 (Spain); Mercet, 1906a:137, 140 (in key to Spanish *Gorytes*); Schmiedeknecht, 1907:220, 221 (in key to Hymenoptera of Central Europe); Zavattari, 1912:3 (Italy: Sardegna: Pantaleo); Dusmet, 1915:88 (Spain: Aragón); Dubois, 1920:88 (first record from Belgium: Heyst, probably accidental), 1922:200, 201, 203 (in key to Belgian Sphecidae); Berland, 1925d:90 (in Sphecid Fauna of France); Schmiedeknecht, 1930:682, 683 (in key to Hymenoptera of North and Central Europe); Bischoff, 1931:9 (Spain); Bernard, 1933:62 (France: Drôme: Dieulefit); Nadig, 1933:90 (Morocco: Ifrane); Zavadil, 1934:188 (Slovakia); Bernard, 1935:63 (France: Var: Fréjus area); Crèvecœur and Maréchal, 1936:253 (not part of Belgian fauna); Zavadil, Šustera, and Bat'a, 1937:192 (in catalog of Sphecidae of Czechoslovakia); Maidl and Klima, 1939:99 (in catalog of world Astatinae and Bembicinae); Guiglia, 1941c:164 (Italy: Calabria: Grande Sila); Giner Marí, 1943a:181 (in Sphecid Fauna of Spain); Guiglia, 1944b:21 (Italy); Villiers, 1946:12 (France: Haute-Savoie: Samoëns area); Šnoflák in Zavadil and Šnoflák, 1948:71 (in key to Sphecidae of Czechoslovakia); de Andrade, 1949:18 (Portugal); Cavro, 1950:35 (France: Département du Nord); Caruel, 1951:100 (France: Marne Department); de Beaumont, 1951g:313 (Italy); Balthasar, 1952:66 (Slovakia); de Beaumont, 1953f:176 (in revision of western Palearctic *Gorytes*), 1953g:112 (Morocco: Port Lyautey, now Kenitra, and El Moudzine), 1953i:4 (study of holotype); Móczár, 1953:310 (Hungary); de Beaumont, 1954e:89 (Italy); Vogrin, 1955:35 (Yugoslavia); Ceballos, 1956:384 (in catalog of Hymenoptera of Spain); Bajári, 1957a:107, 110 (in key to Hungarian Sphecidae); Grandi, 1957:385 (Italy: Abruzzi, Sardinia); Ceballos, 1959:229 (in supplement to catalog of Spanish Sphecidae); de Beaumont, 1959a:20 (Italy); Diniz, 1959:30 (Portugal: Lisboa, S. João do Estoril, Torre da Marinha); Noskiewicz and Puławski, 1960:92, 94 (in key to Polish Sphecidae, not yet found in Poland); de Beaumont, 1962b:24 (Spain), 35 (geographic variation); Ceballos, 1964:92 (in supplement to catalog of Spanish Sphecidae); de Beaumont, 1964c:48 (in Sphecid Fauna of Switzerland), 1965a:35 (Greece); Roberti, Frilli, and Pizzaghi, 1965:110 (Italy: Emilia-Romagna: Piacenza); J. Heinrich, 1967:71 (Germany: Goldbach); Benedek, 1968:72 (Hungary, visiting flowers of *Pastinaca sativa* L., Asteraceae); Scobiola-Palade, 1968c:384 (Romania: Copăceni); Benedek, 1969a:83 (Hungary; marshy meadow), 1970:97 (Hungary: Tapolca); Balthasar, 1972:307 (in Sphecid Fauna of Czechoslovakia); Kazenas, 1972b:152 (Kazakhstan), 1974b:110 (feeding on flowers

of *Euphorbia* spp., Euphorbiaceae, in Kazakhstan); R. Bohart and Menke, 1976:502 (in checklist of world Sphecidae); Guichard, 1978:270 (Greece); Kazenas, 1978b:75, 77 (in key to Sphecidae of Kazakhstan and Central Asia); Marion, 1978:87 (France); Pulawski, 1978:202, 203 (in key to Sphecidae of European part of USSR); Benedek, 1979:230 (Hungary: Bakony Mountains); Schmidt, 1979b:350 (Germany: Baden-Württemberg); Pagliano, 1980:115 (Italy: Piemonte); Gayubo, 1982b:44 (Spain: Ávila, Cáceres, and Salamanca provinces); Dollfuss, 1983b:23 (Austria: Niederösterreich: Oberweiden); Gayubo, 1983e:234 (Spain: Salamanca Province); Gayubo and Tormos, 1984:21 (Spain: Valencia); Gayubo, 1985c:171 (Spain: Valladolid: Valladolid); Józan, 1985b:61 (Hungary south of Lake Balaton), 84 (ecological and zoogeographic characteristics); Gayubo, 1986a:65 (Spain: Ciudad Real Province), 1986b:40 (Spain: Andalucía), 1986d:12 (Spain: Zamora Province); Gayubo and Heras, 1986:61 (Spain: Segovia Province; floral records); Gayubo and Sanza, 1986:78 (Spain: Burgos, Segovia); Gayubo and Tormos, 1986a:13 (Spain: Castellón de la Plana); Islamov, 1986:522 (Uzbekistan: Tashkent Oblast'); Józan, 1986:374 (Hungary: Kiskunság National Park); Asís and Jiménez, 1988:274 (Spain: Castellón Province); Chevin, 1988:16 (France: La Manche Department); Dollfuss, 1988:30 (Austria: Niederösterreich: Oberweiden); Karsai, 1988:101 (Hungary: Kiskunság National Park); Pádr in Šedivý, 1989a:167 (in checklist of Czechoslovakian Sphecidae); Gayubo, Asís, and Tormos, 1990b:78 (Spain); Pagliano, 1990:71 (in catalog of Italian Sphecidae); Day, 1991:xv (summary of European Endangered Hymenoptera Lists); Dollfuss, 1991:201 (in key to Sphecidae of North and Central Europe); Gayubo, Borsato, and Osella, 1991:415 (Italy); Nemkov, 1990b:680, 685 (in key to *Gorytes* of USSR, as *sulcifrons sulcifrons*), 688 (south of European USSR, Kazakhstan, Tajikistan, Uzbekistan); Delarze, 1992:68 (Switzerland: Valais: Les Follatères); Gayubo, Borsato, and Osella, 1992:288 (Greece: Tymphristos); Pagliano, 1992:37, 39 (in key to Italian Bembicinae); K. Weber, 1992:87 (Germany: Bayern: Bamberg District); Negrisolo and Pagliano, 1993:91 (Italy: Sardegna); Dollfuss, 1994:99 (endangered in Austria); Gayubo and Borsato, 1994:217 (Italy: Veneto); Tormos, Asís, and Gayubo, 1994:189, 219 (Spain: Albacete Province); Kazenas and Esenbekova, 1995:80 (Kazakhstan; bibliographic reference to leafhopper prey); Negrisolo in Minelli, Ruffo, and La Posta, 1995b:4 (in catalog of Italian fauna); Gusenleitner, 1996a:10 (Austria: Burgenland); Scharrer, 1995:29 (Austria: Niederösterreich: Oberweiden); Schmid-Egger, Schmidt, and Doczkal, 1996:377 (Germany: Baden-Württemberg: not collected after 1929); Bitsch, Barbier, Gayubo, Schmidt, and Ohl, 1997:202 (in Sphecid Fauna of Western Europe); Pagliano and Alma, 1997:178 (known prey listed); Schmidt and Schmid-Egger, 1997:15 (in checklist of German Sphecidae); Dollfuss, Gusenleitner, and Bregant, 1998:523 (Austria: summary of collecting records from Burgenland); Gayubo, García, Torres, and González, 1999:91 (Spain: Soria Province); W. Klein, 1999:22 (in improved key to male *Gorytes* of Benelux); Pauly, 1999:111 (in catalog of Belgian aculeates); Podgorbunskikh and Rudoiskatel', 1999:142 (Russia: Chelyabinsk Oblast': Il'men Nature Reserve); Blösch, 2000:385 (in Sphecid Fauna of Germany); Gayubo, González, and Torres, 2000:187 (Spain: Salamanca Province); Shkuratov, 2000:57 (Russia: Rostov Oblast': Věshenskaya village area at 49°37'N 41°45'E); Esenbekova and Kazenas, 2000:61 (southeastern Kazakhstan: seven localities); Józan, 2001:281 (Hungary: Somogy County); Kazenas, 2001b:46 (in checklist of Sphecidae of Kazakhstan and Central Asia), 223 (review of known biology); Kazenas and Esenbekova, 2001:134 (Kazakhstan: Almatinskiy Nature Reserve); Mazzucco, 2001:203, 196 (Austria: Niederösterreich: Steinfeld, endangered); Ohl et al., 2001:139 (distribution in Germany by provinces); Kazenas, 2002a:122 (geographic distribution, collecting localities in Kazakhstan); Schmid-Egger, 2002b:186 (in revision of western Palearctic *Gorytes*); González, Gayubo, Asís, Tormos, and García, 2003:61 (Spain: Soria: Chavaler); Mandery, Kraus, Voith, Wickl, Scheuchl, Schubert, and Warncke, 2003:66 (Germany: in catalog of wasps and bees of Bayern); Nieves-Aldrey, Fontal-Cazalla, Garrido-Torres, and Rey del Castillo, 2003:42 (Spain: Madrid: Estación Biogeológica de El Ventorrillo in Sierra de Guadarrama); Wickl, Voith, Mandery, Weber, Kraus, Bausenwein, and Blösch, 2003:195 (Germany: Bayern: extinct or no longer collected); Gayubo et al. 2004:130 (Spain: Madrid: Estación Biogeológica de El Ventorrillo in Sierra de Guadarrama); Kazenas, 2004b:110 (Kazakhstan: western Tien Shan); Shkuratov, 2004a:75 (Russia: Rostov Oblast' and Ukraine: Donetsk Oblast'), 2004b:165 (Russia: Rostov Oblast': Gosudarstvennyi Muzey-Zapovednik M.A. Sholokhova); Cruz-Sánchez, Gayubo, González, and Torres, 2005:219 (Spain: Salamanca: San Martín del Castañar); Gayubo and Özbek, 2005:19 (Turkey: Erzurum:

Palandöken); Pagliano and Negrisolo, 2005:147 (in Sphecid Fauna of Italy); Shorenko, 2005a:167 (Ukraine: Crimea); Yıldırım and Ljubomirov, 2005:1792 (Turkey: Erzurum and Konya provinces); Józan, 2006:284 (Hungary: Zamardi); Baños-Picón, Gayubo, Asís, and González, 2007:255, 258 (Spain: Zamora: Cabañas de Aliste); Jacobs, 2007:174, 177 (in key to Crabronidae of Germany); Roche, 2007a:114 (in catalog of Egyptian Ampulicidae, Sphecidae, and Crabronidae), 2007b:8 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae); G. Turrisi and R. Turrisi, 2007:116 (Italy: Sicilia: Mount Etna: Botanical Garden Nuova Gussonea and vicinity); Vago, 2007:174 (France: département de Somme); Vepřek and Straka, 2007:208 (in catalog of Sphecidae of Czech Republic and Slovakia, known from Slovakia only); Yıldırım and Ljubomirov, 2007:118 (Turkey: Erzurum Province); Gayubo, González, Tormos, and Asís, 2008:137 (Spain: Salamanca: Parque Natural de Las Batuecas—Sierra de Francia); Kazenas, 2008b:114 (Kazakhstan: foothills of Zailiskiy Alatau: found along roads and on loess cliffs); Ivory, Chevin, Lair, Sagot, and Baldock, 2008:35 (France: Département de la Manche); Ljubomirov and Yıldırım, 2008:83 (in catalog of Crabronidae of Turkey); Nemkov, 2008b:24 (in catalog of Crabronidae of Asiatic Russia); Zettel, Wiesbauer, and Zimmermann, 2008:136 (Austria: Burgenland: Illmitz, Leithagebirge; Niederösterreich: Oberweiden; Wien: Alte Schanzen); Baños-Picón, Asís, Gayubo, and Tormos, 2009:311 (Spain: frequency of specimens collected with hand nets and Malaise traps); Debuyser and Vago, 2009:3 (in list of Sphecidae *sensu lato* of northern France); Gayubo, González, Tormos, and Asís, 2009:364 (Spain: Valladolid: Reserva Natural Riberas de Castronuño – Vega del Duero); González, Gayubo, Asís, and Tormos, 2009:625 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park); Shorenko, 2009:368 (in list of Sphecidae *sensu lato* of Crimea, as *sulcifrons sulcifrons*); Bitsch, 2010:113 (in supplement to vol. II of Faune de France, 1997: recent records from Italy reported); Mokrousov, 2010a:61 (Russia: Tatarstan: no specific locality), 2010b:100 (Russia: Republic of Tatarstan: no specific locality); Rudoiskatel', 2010:150 (Russia: central and southern Ural Mountains); Schmid-Egger, 2010a:16 (in red list of Aculeata of Germany: extinct, last collected in 1964); van der Smissen, 2010b:385 (France: Ardèche: Plateau du Coiron); Cruz-Sánchez, Asís, Gayubo, Tormos, and González, 2011:500 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park: effects of wildfire); Józan, 2011:183 (in checklist of Sphecidae *sensu lato* of Hungary); Rudoiskatel', 2011d:240 (Russia: central Ural Mountains); Schmid-Egger, 2011a:38 (France: Parc National du Mercantour: Isola; Italy: Parco delle Alpi Marittime: Lago Rovino, San Lorenzo); Tischendorf, Frommer, and Flügel et al., 2011:43 (Germany: extinct in Hessen, last collected in 1955); Boillat, 2012:227 (Switzerland: in checklist of insects of Canton de Genève); Nemkov, 2012b:120 (review of known prey); Strumia, Pagliano, and Gayubo, 2012:56 (Italy: Toscana: Riserva di San Rossore); Yıldırım, 2012:76 (Turkey: Artvin, Bayburt, Erzurum, and İğdır provinces); Kazenas, 2013a:108 (color photograph of adult wasp, short information on geographic distribution and nesting habits), 2013b:497 (southeastern Kazakhstan: Ili River valley); Vieira, Oliveira, Brewster, and Gayubo, 2013:15 (Portugal: Douro International Natural Park and Serras de Aire e Candeeiros Natural Park); Ebrahimi, 2014:33 (Iran: Āzārbāijān-e Sharqi, Kordestān, and Tehrān provinces); Kazenas, 2014a:137 (Kazakhstan: Karatau Mountain Range); Mokrousov and Vafin, 2014:55 (Russia: Republic of Tatarstan); Yıldırım, Ljubomirov, and Lelej, 2014:6 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:144 (in checklist of Hymenoptera of Turkey); Shorenko, 2015:339 (in list of Sphecidae *sensu lato* of Crimea); Yıldırım, Ljubomirov, Özbek, and Yüksel, 2016:15 (Turkey: Erzurum, Giresun, and Tunceli provinces); Jahantigh, Rakhshani; Mokhtari, and Ramroodi, 2017:37 (Iran: known from east Azerbaijan, Kordestan, and Tehran provinces); Magdalou, 2017:15 (France: Pyrénées-Orientales: Réserves Naturelles Catalanes: Julols); Nemkov, 2017a:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae), 2017b:223 (in catalog of Bembicinae of Russia, as *sulcifrons sulcifrons*); Shorenko, 2017:80 (in Crimea collected in June); Kemal and Koçak, 2018:34 (Turkey: in list of pterygot insects of Van Province); Shorenko, 2018:130 (Crimea, including localities, habitats, and number of specimens); Mokrousov, Proshchalykin, Aliyev, and Maharramov, 2019:12 (Azerbaijan: Nakhichevan Autonomous Republic); Bitsch, Barbier, and Jacobs in Bitsch, Barbier, Gayubo, Jacobs, Leclercq, and Schmidt, 2020:247 (in Sphecid Fauna of Europe); Cross, Baldock, and Wood, 2021:26 (in catalog of Sphecidae *sensu lato* of Portugal); Kaplan and Yıldırım, 2021:33 (in catalog of

Crabronidae of Turkey); Mokrousov and Proshchalykin, 2021b:175, 177 (in key to Palearctic *Gorytes*); Kaplan and Yildirim, 2023:1681 (in checklist of Sphecidae *sensu lato* of Turkey).

Hoplisus sulcifrons A. Costa, 1869b:81. Objective synonym of *Hoplisus sulcifrons* A. Costa, 1867c:65.

As *Gorytes albidulus* (partim): Yildirim and Ljubomirov, 2005:1791 (Turkey: Artvin and Erzurum Provinces), corrected to *Gorytes sulcifrons* by Nemkov in Yildirim and Ljubomirov, 2007:118.

ssp. *laevigatus* (Kohl)

Hoplisus laevigatus Kohl, 1880:229, ♂. Syntypes: ♂, Austria: near Bozen, now Italy: Bolzano: Gries, Sankt Justina (NHMW). – Kohl, 1880:172 (Italy: Trentino–Alto Adige: Gries, Sankt Justina), 1881:90 (description of ♀), 1883e:667 (Switzerland). – As *Gorytes laevigatus*: Handlirsch, 1888b:498 (new combination, as new synonym of *Gorytes sulcifrons*); R. Bohart and Menke, 1976:502 (as synonym of *Gorytes sulcifrons*). – As *Gorytes sulcifrons laevigatus*: de Beaumont, 1953f:177 (new status, in revision of western Palearctic *Gorytes*); Nouvel and Ribaut, 1958:11 (France: Pyrénées-Orientales: Banyuls-sur-Mer); Diniz, 1973:45 (Portugal: seventeen localities).

? *Crabro calceatus* Rossi, 1794:122, ♀. Syntypes: ♀, Italy: Toscana (lost). – de Beaumont, 1953f:198 (discussion of identity).

? *Gorytes ruficornis* Latreille, 1804b:309, ♀. Holotype or syntypes: ♀, France? (depository?). – de Beaumont, 1953f:199 (discussion of identity).

ssp. *mongolicus* Tsuneki

Gorytes mongolicus Tsuneki, 1971k:187, ♀. Holotype: Mongolia: Central aimag: Zuun-Hara (TMB). – Tsuneki, 1971m:10 (China: Nei Mongol: Apaka); R. Bohart and Menke, 1976:501 (in checklist of world Sphecidae); Nemkov, 1986:108 (Russia: Siberia: Irkutsk Oblast'). – As *Gorytes sulcifrons mongolicus*: Nemkov, 1989:68, 71 (in key to *Gorytes* of Siberia and Russian Far East), 72 (new status); Nemkov, 1990b:680, 685 (in key to *Gorytes* of belorusUSSR); Nemkov in Nemkov, Kazenas, Budrys, et Antropov, 1995:461, 465 (in key to Sphecidae of Russian Far East); Hua, 2006:280 (in list of Chinese insects, geographic distribution); Nemkov, 2009b:138 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia; Baghirova, 2011b:142 (Russia: recorded from Altay by Nemkov in Nemkov, Kazenas, Budrys, and Antropov, 1995); Nemkov, 2017b:223 (in catalog of Bembicinae of Russia); Jacobs and Liebig, 2018:142 (Russia: Irkutsk Oblast': Sarma).

As *Gorytes eous*: Yasumatsu, 1942c:110 (China: Nei Mongol: Apaka at 44°N 114.96°E), corrected to *Gorytes mongolicus* by Tsuneki, 1971m:10.

69. *tanythrix* (R. Bohart)

Pseudoplisis tanythrix R. Bohart, 1969b:399, ♂. Holotype: ♂, USA: Oklahoma: Kenton (CAS). – R. Bohart, 1969b:394 (in key to North American *Pseudoplisis*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1696 (in catalog of North American Hymenoptera). – As *Gorytes tanythrix*: Nemkov and Pulański, 2009:7 (new combination, in cladistic analysis of *Gorytina*).

70. *tobiasi* Nemkov

Gorytes tobiasi Nemkov, 1990b:687, ♀, ♂. Holotype: ♀, Uzbekistan: Chatkal Range: urochishche Aksagaty (ZIN). – Nemkov, 1990b:682, 684 (in key to *Gorytes* of USSR); Esenbekova and Kazenas, 2000:61 (southeastern Kazakhstan: 23 km west, 3 km south, and 2 km southwest of Alma Ata, 3 km southwest of Temirbastau, 2 km northwest of Zhabagly); Kazenas, 2001b:46 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:122 (geographic distribution, collecting localities in Kazakhstan); Kazenas, 2004b:110 (Kazakhstan: western Tien Shan), 2014a:138 (Kazakhstan: Karatau Mountain Range); Nemkov, 2017:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae); Mokrousov and Proshchalykin, 2021b:177 (in key to Palearctic *Gorytes*).

71. *tricinctus* (Pérez)

Hoplisus tricinctus Pérez, 1905a:157, ♀. Holotype or syntypes: ♀, Japan: no specific locality but presumably Tokyo area (MNHN). – Pérez, 1905a:26 (in list of Japanese aculeates discussed in this paper). – As *Gorytes tricinctus*: nec

Yano, 1932:280 and 1950:1470 (= *Gorytes maculicornis*); Maidl and Klima, 1939:72 (new combination, in catalog of world Astatinae and Bembicinae); Tsuneki, 1962e:70 (*Gorytes tricinctus* in *Iconographia Insectorum Japonicorum*, Ed. II is actually *Gorytes eous*), 1963a:3, 5 (in key to Gorytini of Japan and Korea), 12 (in revision of Gorytini of Japan and Korea, Japan: Hokkaido, Hondo); Tsuneki, Iida, Hirai, and Sabi, 1964:60 (Japan: Aomori Prefecture: Towada); Tsuneki, 1965c:31, 32 (in key to Bembicinae of Japan and Korea); Haneda, 1968b:56 (Japan: Nagano Prefecture: Ina District); Nambu, 1968b:27 (Japan: Saitama Prefecture); Itami, 1969:46 (Japan: Niigata Prefecture) Tsuneki, 1970b:9 (Central Japan); Itami, 1971:28 (Japan: new locality records); Nambu, 1972e:91 (Japan: Saitama Prefecture), 1973a:152 (Japan: Saitama Prefecture); Suda, 1973:123 (Japan: Yamanashi Prefecture); Nambu, 1975b:71 (Japan: Saitama Prefecture); R. Bohart and Menke, 1976:502 (in checklist of world Sphecidae); Tsuneki, 1982c:1-23 (nesting behavior); Paik, 1985:202 (in list of Sphecidae of Korea); Nemkov, 1989:68, 70 (in key to *Gorytes* of Siberia and Russian Far East; Japan), 1990b:682, 685 (in key to *Gorytes* of USSR); Haneda and Inoue, 2003:50 (Japan: Fukui Prefecture: Katsumi in City of Obama); Haneda, Nosaka, Tano, Kurokawa, and Murota, 2004:38 (Japan: Gifu Prefecture); Suda, 2004:46 (Japan: Yamanashi Prefecture); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:54 (Japan: Gifu Prefecture); Kinota, Haneda, and Tano, 2005:31 (Japan: Hokkaido); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2006a:30 (Japan: Toyama Prefecture); Nagase, 2006a:55 (Japan: Kanagawa Prefecture: Mount Komagatake near Hakone); Terayama, 2006:7, 8, 13 (in key to Japanese Bembicinae); Evans and O'Neil, 2007:56 (summary of information on nesting habits); Okhusa and Tajima, 2010:13 (Japan: Island of Honshu: Shiga Prefecture); N. Yamamoto, 2011:14 (Japan: Kyūshū: mainland Nagasaki Prefecture); J.-K. Kim, 2014:422 (recorded from Korean Peninsula, but not occurring there); Nemkov, 2017:Table p. 6 (in zoogeographic analysis of Palearctic Bembicinae); Itami, 2018:9 (Japan: Niigata Prefecture); 14 (color photographs); Mokrousov and Proshchalykin, 2021b:175, 177 (in key to Palearctic *Gorytes*); Yamamoto, 2021:42 (swarming behavior of males).

72. *umatillae* R. Bohart

Gorytes vicinus Handlirsch, 1893b:279, ♀, junior secondary homonym of *Gorytes vicinus* (Lepeletier de Saint Fargeau, 1832). Holotype: USA: Washington: no specific locality (NHMW). – Handlirsch, 1895:917 (original description copied); W. Fox, 1896a:534 (in revision of North American *Gorytes*); Dalla Torre, 1897:556 (in catalog of world Sphecidae); Maidl and Klima, 1939:103 (in catalog of world Astatinae and Bembicinae); Krombein in Muesebeck, Krombein, and Townes, 1951:992 (in catalog of North American Hymenoptera); Dollfuss, 1989:9 (type material in NHMW). – As *Hoplisus vicinus*: Ashmead, 1899d:328 (new combination, in checklist of North American Crabronidae).

Gorytes umatillae R. Bohart, 1971:450. Substitute name for *Gorytes vicinus* Handlirsch, 1893. – R. Bohart and Menke, 1976:502 (in checklist of world Sphecidae); Krombein, 1979b:1694 (in catalog of North American Hymenoptera).

73. *venustus* Cresson

Gorytes venustus Cresson, 1865b:472, ♀, ♂. Lectotype: ♀, USA: Colorado Territory: no specific locality (ANSP), designated by Cresson, 1916:99. – Packard, 1867:425 (in revision of North American aculeates); Cresson, 1887:280 (in catalog of North American Hymenoptera); Handlirsch, 1888b:504 (in revision of world Bembicinae); Cameron, 1890a:77 (bibliographic references); W. Fox, 1896a:537 (in revision of North American *Gorytes*); Dalla Torre, 1897:556 (in catalog of world Sphecidae); Cockerell, 1899a:143 (New Mexico); Brimley, 1938:446 (North Carolina: Raleigh); Maidl and Klima, 1939:114 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplilus*); Krombein in Muesebeck, Krombein, and Townes, 1951:993 (in catalog of North American Hymenoptera); Nemkov and Pulawski, 2009:9 (reverted to *Gorytes*, in cladistic analysis of Gorytina). – As *Hoplisus venustus*: Ashmead, 1890:32 (new combination, in checklist of Hymenoptera of Colorado). – As *Pseudoplilus venustus*: Ashmead, 1899:328 (new combination, in checklist of North American Crabronidae); R. Bohart, 1969b:394 (in key to North American *Pseudoplilus*); R. Bohart and Menke, 1976:503 (in checklist of world Sphecidae); Krombein, 1979b:1696 (in catalog of North American Hymenoptera); Ahlstrom, 1995:112 (in checklist of insects of North

Carolina); Weissmann and Kondratieff, 1999:78 (Colorado: Great Sand Dunes National Monument); Amarante, 2002:17 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae).

Gorytes venustiformis Rohwer, 1911b:568, ♂. Holotype: ♂, USA: Colorado: Boulder (USNM). Synonymized with *Pseudoplisis venustus* by R. Bohart in R. Bohart and Menke, 1976:503. – Maidl and Klíma, 1939:114 (in catalog of world Astatinae and Bembicinae, in subgenus *Pseudoplisis*); Krombein in Muesebeck, Krombein, and Townes, 1951:993 (in catalog of North American Hymenoptera).

74. *willcoxi* (Ohl)

Pseudoplisis willcoxi Ohl, 2009a:28, ♀, ♂. Holotype: ♂, USA: Arizona: Cochise County: Willcox (ZMB). – As *Gorytes willcoxi*: Nemkov and Pulawski, 2009:7 (new combination, in cladistic analysis of Gorytina).

sp.

W. Fox, 1894c:106 (Mexico: Baja California); Ducke, 1908b:82 (Brazil: Ceará State); Bischoff, 1933:4 (Morocco); Callan, 1954:25 (Venezuela: Paria Peninsula: Cristóbal Colón); Hilchie, 1982:107 (Canada: Alberta: Empress); Spahr, 1987:73 (in addition to Keilbach, 1982 catalog of amber Hymenoptera); Quicke, Ingram, Baillie, and Gattens, 1992:386 (sperm structure and ultrastructure); Finnimore, 1994:210 (Canada: Alberta: Wagner Natural Area 8 km west of Edmonton); Blades and Maier, 1996:72 (Canada: British Columbia: Osoyoos–Mount Kobau area at 119°40'W 49°05'N); Finnimore, 1997:892 (Canada: Yukon); Ebermann and Hall, 2004:942 (parasite: scutacarid mite *Imparipes breganti* Ebermann and Hall), 2005:190 (parasite: scutacarid mite *Imparipes apicola* (Banks, 1914)); Kazenas, 2007a:92 (Kazakhstan: Akmala Oblast': Kurgandzhin Nature Reserve and vicinity, sp. aff. *procrustes*); Horta-Vega, Vanoye-Eligio, García-Gutiérrez, Coronado-Blanco, and Barrientos-Lozano, 2013:383 (Mexico: Tamaulipas: Ciudad Victoria: Cañón del Novillo, as *Pseudoplisis* sp.).

NOMINA NUDA IN GORYTES

Hoplisus bisects [sic] Spinola: Pagliano, 2014:91 (specimens in M. Spinola collection, Torino, are *Lestiphorus bicinctus* and *Ammatomus coarctatus*)

Hoplisus crassicornis A. Costa, 1863:66 (Italy: Calabria Ulteriore: Aspromonte).

Hoplisus fasciatus Spinola: Casolari and Casolari Moreno, 1980:121 (specimens in M. Spinola collection, Torino); Pagliano, 2014:90 (specimens in M. Spinola collection, Torino, are *Gorytes quadrifasciatus* and *Gorytes* sp.).

Hoplisus giacomellii Schrottky, 1913a:227 (Argentina: La Rioja).

Hoplisus (Pseudoplisis) gryponacinus Rohwer: A. Brown, 1934:264 (Canada: Ontario: Timagami).

Gorytes libithinus Curtis: Wesmael, 1839:78.

Hoplisus puncticollis: Casolari and Casolari Moreno, 1980:121 (specimens in M. Spinola collection); Pagliano, 2014:91 (specimen in M. Spinola collection, Torino, is *Hoplisus* sp.).

Hoplisus pyriformis: Casolari and Casolari Moreno, 1980:121 (specimens in M. Spinola collection); Pagliano, 2014:88 (specimen in M. Spinola collection, Torino, is *Gorytes planifrons*).

Gorytes ratus Kohl: Dollfuss, 1989:9 (type material in NHMW).

Gorytes rubidus: Casolari and Casolari Moreno, 1980:116 (specimens in M. Spinola collection, Torino); Pagliano, 2011:135 (specimen in coll. Spinola, Torino, is a *Hoplisoides* sp. from Egypt).

Gorytes variabilis Gussakovskij: Kazenas, 1972b:148 (Kazakhstan).

Last updated: 4 March 2024

Hoplisus tricolor Spinola: Pagliano, 2014:86 (specimen in M. Spinola collection is *Gorytes sulcifrons*).

NOMEN NUDUM IN PSEUDOPLISUS

Pseudoplisis occidentalis Bohart: Parks, 1986:35 (Torrey Pines State Reserve).

UNRECOGNIZABLE NAMES IN *GORYTES*

Gorytes quadricinctus Dahlbom: Coulon, 1925:119 (Germany).

Gorytes quadricinctus Fabricius: Plavil'shchikov, 1964:122 (Russia: Mordovian State Nature Reserve).

FOSSIL *GORYTES*

1. *archoryctes* (Cockerell)

Hoplisus archoryctes Cockerell, 1922:13, sex not stated. Holotype: sex unknown, USA: Colorado: Bear Gulch 12 mi. from Una (USNM). Age: Eocene. – Evans, 1966d:394 (original description copied, redescription and photograph, may be a member of *Harpactostigma*); R. Bohart and Menke, 1976:31 (in checklist of world Sphecidae, may be a member of *Psammaletes*).

NAME OF UNCERTAIN STATUS

Gorytes nemoralis Klug: von Siebold, 1844:132 (Germany: Preussen: vicinity of Danzig, now Poland: Gdańsk).

SPECIES DESCRIBED IN *GORYTES* AND TRANSFERRED TO OTHER GENERA

adornatus Bradley, 1920 = *Hoplisoides hamatus* (Handlirsch, 1888)

adventicus de Beaumont, 1967 = *Harpactus*

aegyptiacus Schulz, 1904 = *Harpactus laevis aegyptiacus* (Schulz, 1904)

aeratus Taschenberg, 1875 = *Argogorytes*

aeneus Handlirsch, 1888 = *Clitemnestra*

affinis Spinola, 1808 = *Harpactus*

aglaia Handlirsch, 1895 = *Hoplisoides*

albitomentosus Bradley, 1920 = *Hapalomellinus*

alicantinus Mercet, 1906 = *Harpactus laevis alicantinus* Mercet, 1906

alipes Bingham, 1897 = *Ammatomus*

alpestris Cameron, 1890 = *Saygorytes phaleratus* (Say, 1837)

alticola Cameron, 1890 = *Saygorytes phaleratus* (Say, 1837)

amatorius F. Smith, 1875 = *Ammatomus*

apicalis F. Smith, 1856 = *Saygorytes*

areatus Taschenberg, 1875 = *Argogorytes*

arenarium de Beaumont, 1953 = *Harpactus*

armatus Provancher, 1887 = *Hoplisoides nebulosus* (Packard, 1867)

arnoldi Benoit, 1951 = *Oryttus*

asuncionis Strand, 1910 = *Hoplisoides jordani* (Handlirsch, 1895)

aureus de Beaumont, 1959 = *Harpactus*

auropilosellus Cameron, 1912 = *Hoplisoides vespoides* (F. Smith, 1873)

austerus Handlirsch, 1893 = *Sagenista*

austrinus Bingham, 1912 = *Ammatomus*

balteatus Cameron, 1890 = *Stenogorytes*

barbatulus Handlirsch, 1888 = *Hoplisoides denticulatus* (Packard, 1867)

basalis F. Smith, 1860 = *Argogorytes*

basutorum Arnold, 1958 = *Hoplisoides*

bellicosus F. Smith, 1862 = *Austrogorytes*

belfragei Cresson, 1872 = *Tanyoprymnus monedulaoides* (Packard, 1867)
bergii Handlirsch, 1901 = *Stenogorytes specialis* (F. Smith, 1873)
bifasciatus Brèthes, 1909 = *Allogorytes*
bigeloviae Cockerell, 1897 = *Psammaletes*
bipunctatus Say, 1824 = *Clitemnestra*
bipustulatus Arnold, 1945 = *Hoplisoides*
capitatus Nurse, 1902 = *Hoplisoides*
bollii Cresson, 1872 = *Argogorytes nigrifrons* (F. Smith, 1856)
brasiliensis Shuckard, 1838 = *Sagenista*
braunsi Handlirsch = *Hoplisoides*
bruchi Schrottky, 1909 (*Hoplisus*) = *Stenogorytes*
carbonarius F. Smith, 1856 = *Argogorytes*
castor Handlirsch, 1898 = *Harpactus*
cayennensis (Spinola, 1841) (*Hoplisus*) = *Sagenista*
cearensis Ducke, 1910 = *Stenogorytes bruchi* (Schrottky, 1909)
caerulescens R. Turner, 1914 = *Argogorytes*
centralis Cameron, 1890 = *Megistomum splendidum* (Handlirsch, 1888)
championi Cameron, 1890 = *Clitemnestra*
ciliatus Handlirsch, 1895 = *Austrogorytes*
coarctatus Spinola, 1808 = *Ammatomus*
coccineus Balthasar, 1954 = *Harpactus*
cockerelli Rohwer, 1909 = *Lestiphorus*
coloratus W. Fox, 1893 = *Clitemnestra*
confertus W. Fox, 1895 = *Hoplisoides*
consanguineus Handlirsch, 1888 = *Harpactus transiens* A. Costa, 1887
constrictus F. Smith, 1859 = *Argogorytes*
coquilletti W. Fox, 1896 = *Arigorytes*
cordobensis Fritz, 1964 = *Liogorytes*
costalis Cresson, 1872 = *Hoplisoides*
crassicornis Mantero, 1917 = *Ammatomus*
creticus de Beaumont, 1965 = *Harpactus*
cribratus F. Morawitz, 1892 = *Oryttus*
croceipes Eversmann, 1849 = *Argogorytes mystaceus* (Linnaeus, 1761)
crucis Cockerell, 1897 = *Psammaletes*
curtulus A. Costa, 1893 = *Hoplisoides punctatus* *curtulus*
cygnorum R. Turner, 1908 = *Austrogorytes*
cyrenaicus de Beaumont, 1956 = *Harpactus*
delicatulus Morice, 1911 = *Harpactus*
decoratus Handlirsch, 1888 = *Ammatomus*
densipunctatus Yasumatsu, 1943 = *Lestiphorus*
dentatus W. Fox, 1893 = *Hoplisoides*
denticulatus Packard, 1867 = *Hoplisoides*
distinguendus Yasumatsu, 1943 = *Hoplisoides*
diversus W. Fox, 1896 = *Hoplisoides*
dizonus Handlirsch, 1895 = *Austrogorytes belliosus* (F. Smith, 1856)
duboulayi R. Turner, 1908 = *Clitemnestra*

- egregius* Handlirsch, 1893 = *Lestiphorus*
elegans Lepeletier de Saint Fargeau, 1832 = *Harpactus*
escalerae R. Turner, 1912 = *Harpactus*
euphrosyne Handlirsch, 1895 = *Hoplisoides*
eurynome Arnold, 1955 = *Hoplisoides*
exiguus Handlirsch, 1888 = *Harpactus*
eximius Provancher, 1889 = *Hapalomellinus*
facilis F. Smith, 1873 = *Stenogorytes*
fairmairei Handlirsch, 1893 = *Argogorytes*
fasciatipennis Cameron, 1890 = *Hoplisoides iridipennis* (F. Smith, 1856)
feae Handlirsch, 1895 = *Hoplisoides*
femoratus Bradley, 1920 = *Oryttus umbonatus* Baker, 1907
ferrugatus Gussakovskij, 1928 = *Harpactus formosus ferrugatus* (Gussakovskij, 1928)
fertoni Handlirsch, 1910 = *Harpactus*
fiebrigi Brèthes, 1909 = *Sagenista*
flavicornis Packard, 1867 = *Saygorytes phaleratus* (Say, 1837)
flaviventris F. Morawitz = *Psammaecius luxuriosus* Radoszkowski, 1877
foxi Handlirsch, 1901 = *Stenogorytes*
frenchi R. Turner, 1908 = *Austrogorytes*
fulvipennis F. Smith, 1856 = *Saygorytes phaleratus* (Say, 1837)
fulvohirtus Tsuneki, 1963 = *Eogorytes*
fumipennis F. Smith, 1856 = *Stenogorytes*
funereus Giner Marí, 1945 = *Harpactus*
fuscipennis Cameron, 1890 = *Stenogorytes notabilis* (Handlirsch, 1888)
fuscus Taschenberg, 1875 (*Hoplisus*) = *Hoplisoides*
gayi Spinola, 1851 = *Clitemnestra*
gazagnairei Handlirsch, 1893 = *Hoplisoides*
gaoganus Sonan, 1940 (*Hoplisus*) = *Eogorytes*
gracilis Patton, 1879 (*Hoplisus*) = *Oryttus*
grandis Gussakovskij, 1932 = *Argogorytes mystaceus grandis*
greeni Bingham, 1897 = *Lestiphorus*
guichardi de Beaumont, 1968 = *Harpactus*
gulielmi Viereck, 1908 = *Hoplisoides punctifrons* (Cameron, 1890)
hamatus Handlirsch, 1988 = *Hoplisoides*
handlirschi F. Morawitz, 1890 = *Ammatomus coarctatus* (Spinola, 1808)
helianthi Rohwer, 1911 = *Hoplisoides tricolor* (Cresson, 1868)
hirtus Handlirsch, 1888 = *Clitemnestra*
hispanicus Mercet, 1906 = *Argogorytes*
hissaricus Gussakovskijs, 1952 = *Harpactus*
houskai Balthasar, 1954 = *Harpactus*
hypenethes Handlirsch, 1895 = *Hoplisoides denticulatus hypenethes*
ibericus Mercet, 1906 = *Hoplisoides punctuosus* (Eversmann, 1849)
icariiformis Bingham, 1908 = *Lestiphorus*
icarioides R. Turner, 1908 = *Ammatomus*
ifranensis Nadig, 1933 = *Harpactus quadrisignatus ifranensis*
iheringi Handlirsch, 1893 = *Hoplisoides*

imitator Handlirsch, 1901 = *Aroliagorytes*
imperialensis Bradley, 1920 = *Hoplisoides confertus* (W. Fox, 1896)
impiger Bingham, 1897 = *Hoplisoides*
impudens Nurse, 1903 = *Harpactus*
infernalis Handlirsch, 1888 = *Oryttus*
insolitus W. Fox, 1896 = *Arigorytes*
iridipennis F. Smith, 1856 = *Hoplisoides*
jentinki Handlirsch, 1895 = *Hoplisoides*
joergensenii Brèthes, 1910 = *Liogorytes*
jordani Handlirsch, 1895 = *Hoplisoides*
karoensis Brauns, 1911 = *Harpactus vicarius karoensis* (Brauns, 1911)
kostjuki Nesterov, 1993 = *Oryttus kaszabi* Tsuneki, 1971
knabi Rohwer, 1911 = *Hoplisoides costalis* (Cresson, 1973)
kraepelini Brauns, 1899 = *Oryttus*
laminiferus W. Fox, 1896 = *Oryttus*
lateritius Handlirsch, 1888 = *Harpactus*
latifrons Spinola, 1808 = *Hoplisoides*
lenis Nurse, 1903 = *Ammatomus*
lepidus Arnold, 1944 = *Harpactus*
lucidulus R. Turner, 1908 = *Clitemnestra*
lugubris de Beaumont, 1960 = *Harpactus quadrisignatus lugubris*
maculatus Provancher, 1895 = *Hoplisoides spilopterus* (Handlirsch, 1888)
maculipennis Cameron, 1890 = *Hoplisoides*
maroccanus Dusmet, 1925 = *Hoplisoides*
matangensis R. Turner, 1914 = *Argogorytes*
mavromoustakisi Balthasar, 1954 = *Ammatomus coarctatus* (Spinola, 1808)
megalommiformis Strand = *Stenogorytes*
megaloptalmus Handlirsch, 1895 = *Clitemnestra*
mellinoides W. Fox, 1896 = *Lestiphorus*
mendicus Handlirsch, 1893 = *Harpactus*
mendozanus Brèthes, 1913 = *Hoplisoides*
merceti de Beaumont, 1950 = *Hoplisoides craverii merceti*
mesostenus Handlirsch, 1888 = *Ammatomus*
mexicanus Handlirsch, 1888 = *Psammaletes*
microcephalus Handlirsch, 1888 = *Hoplisoides placidus nebulosus* (Packard, 1867)
mimetes Handlirsch, 1901 = *Epigorytes*
minutus Mocsáry, 1879 (*Hoplisus*) = *Hoplisoides latifrons* (Spinola, 1808)
mirandus W. Fox, 1892 = *Oryttus*
mitjaevi Kazenas, 1972 = *Ammatomus coarctatus* (Spinola, 1808)
modestus Cresson, 1865 = *Saygorytes phaleratus* (Say, 1837)
moneduloides Packard, 1867 = *Tanyoprymnus*
monstrosus Handlirsch, 1894 = *Afrogorytes*
moravicus Šnoflák, 1946 = *Harpactus morawitzi* Radoszkowski, 1884
morrensis Strand, 1910 = *Hoplisoides vespooides* (F. Smith, 1873)
mundus de Beaumont, 1950 = *Harpactus*
nebulosus Packard, 1867 = *Hoplisoides placidus nebulosus*

neglectus Rohwer, 1911 = *Argogorytes nigrifrons* (F. Smith, 1856)
nikolajevskii Gussakovskij, 1928 = *Ammatomus*
nigrifrons F. Smith, 1856 = *Argogorytes*
notabilis Handlirsch, 1888 = *Stenogorytes*
obscurus de Beaumont, 1969 = *Harpactus*
orientalis Handlirsch, 1888 = *Hoplisoides*
osdroene de Beaumont, 1969 = *Harpactus*
ornatus F. Smith, 1868 = *Ammatomus decoratus* (Handlirsch, 1888)
papagorum Viereck, 1907 = *Saygorytes phaleratus* (Say, 1923)
partitus W. Fox, 1897 = *Stenogorytes specialis* (F. Smith, 1873)
parvulus Handlirsch, 1888 = *Clitemnestra aenea* (Handlirsch, 1888)
pergandei Handlirsch, 1888 = *Hoplisoides placidus nebulosus* (Packard, 1867)
persimilis R. Turner, 1926 = *Lestiphorus*
perkinsi R. Turner, 1912 = *Austogorytes*
phaleratus Say, 1837 = *Saygorytes*
pictus F. Smith, 1856 = *Hoplisoides*
placidus F. Smith, 1856 = *Hoplisoides*
piceus Handlirsch, 1888 = *Lestiphorus*
polygonodes Bradley, 1920 = *Hoplisoides spilopterus* (Handlirsch, 1888)
politus Bingham, 1897 = *Hoplisoides*
pollux Handlirsch, 1898 = *Harpactus*
polybia Handlirsch, 1895 = *Liogorytes*
procerus Handlirsch, 1888 = *Megistomumm*
procerulides Strand, 1910 = *Epigorytes*
propinquus Cresson, 1868 = *Saygorytes apicalis* (F. Smith, 1856)
punctifrons Cameron, 1890 = *Hoplisoides*
punctulatus Vander Linden, 1829 = *Psammaecius*
pygidialis W. Fox, 1896 = *Hoplisoides costalis pygidialis*
pygmaeus Brèthes, 1913 = *Pluto*
pyrrhobasis Morice, 1911 = *Harpactus*
quedenfeldti Handlirsch, 1895 = *Hoplisoides*
rhopalocerus Handlirsch, 1895 = *Ammatomus mesostenus* (Handlirsch, 1888)
robustus Handlirsch, 1888 = *Hoplisoides*
rogenhoferi Handlirsch, 1888 = *Ammatomus*
ruficornis Provancher, 1888 = *Oryttus laminiferus* (W. Fox, 1896)
rufipes F. Smith, 1856 = *Hoplisoides placidus* F. Smith, 1856
rufithorax Brauns, 1911 = *Harpactus*
rufocinctus W. Fox, 1992 = *Lestiphorus*
rufoluteus Packard, 1867 = *Saygorytes phaleratus* (Say, 1837)
rufomixtus R. Turner, 1914 = *Argogorytes*
rufonodis Radoszkowski, 1877 (*Hoplisus*) = *Ammatomus*
rufulicornis Maidl and Klima, 1939 = *Oryttus laminiferus* (W. Fox, 1896)
sanguinolentus R. Turner, 1908 = *Clitemnestra*
saharae Handlirsch, 1895 = *Ammatomus*
saharae Giner Marí, 1945 = *Harpactus laevis saharae* (Giner Marí, 1945)
saharae Handlirsch, 1895 = *Ammatomus*

sapellonis Baker, 1907 = *Argogorytes*
sareptanus Handlirsch, 1888 = *Harpactus tauricus* Radoszkowski, 1884
schrottkyi Fritz, 1964 = *Liogorytes*
schwarzi de Beaumont, 1965 = *Harpactus*
scutellaris (Spinola, 1841) (*Hoplisus*) = *Sagenista*
scutellaris F. Smith, 1851 = *Sagenista scutellaris* (Spinola, 1841).
seminiger (Dahlbom, 1843) (*Hoplisus*) = *Sagenista*
sepulchralis Handlirsch, 1888 = *Sagenista*
sepultus (Cockerell, 1906) = *Psammaecius*
sericatus F. Smith, 1856 = *Sagenista*
siculus de Beaumont, 1968 = *Harpactus elegans siculus* (de Beaumont, 1968)
similicolor Dow, 1933 = *Argogorytes*
silverlocki R. Turner, 1913 = *Afrogorytes monstrosus* (Handlirsch, 1894)
specialis F. Smith, 1873 = *Stenogorytes*
sphaerosoma Handlirsch, 1895 = *Clitemnestra*
spilographus Handlirsch, 1888 = *Hoplisooides hamatus* (Handlirsch, 1888)
spilopterus Handlirsch, 1888 = *Hoplisooides*
spiniferus du Buysson, 1897 = *Ammatomus*
splendidulus Bradley, 1920 = *Hoplisooides*
splendidus Handlirsch, 1888 = *Megistommum*
stenopygus Handlirsch, 1895 = *Argogorytes*
subtilis Handlirsch, 1895 = *Clitemnestra aenea* (Handlirsch, 1888)
taiwanus Tsuneki, 1971 = *Eogorytes*
tarsatus F. Smith = *Austrogorytes*
tener Handlirsch, 1895 = *Clitemnestra sphaerosoma* (Handlirsch, 1895)
thalia Handlirsch, 1895 = *Hoplisooides*
tonkinensis Yasumatsu, 1943 = *Argogorytes*
transcaspicus Kokujev, 1909 = *Harpactus*
transvaalensis Cameron, 1910 = *Hoplisooides thalia* (Handlirsch, 1895)
triangularis F. Smith, 1873 = *Pterygorytes*
trichiosoma Cameron, 1888 = *Argogorytes carbonarius* (F. Smith, 1856)
tricolor Cresson, 1868 = *Hoplisooides*
tricolor F. Smith, 1875 nec Cresson, 1868 = *Hoplisooides*
unicinctus Brèthes, 1913 = *Liogorytes*
vagus F. Smith, 1859 = *Argogorytes*
valens W. Fox, 1897 = *Pterygorytes*
velutinus Spinola, 1851 (*Hoplisus*) = *Harpactostigma*
vespoides F. Smith, 1873 = *Hoplisooides*
vicarius Handlirsch, 1895 = *Harpactus*
violaceus Handlirsch, 1888 = *Clitemnestra*
walteri Handlirsch, 1888 = *Harpactus*

SPECIES DESCRIBED IN PSEUDOPLISUS AND TRANSFERRED TO SAYGORYTES

guadalajarae R. Bohart, 1969
notipilis R. Bohart, 1969

oracensis R. Bohart, 1969

tritospilus R. Bohart, 1969

wernerii R. Bohart, 1969