

Last updated: 31 May 2018

PISON

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

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

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

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

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

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

Parapison F. Smith, 1869a:298. Type species: *Pisonoides obliteratus* F. Smith, 1858, designated by Pate, 1837c:47.

Pseudonysson Radoszkowski, 1876a:104 (as *Pseudo-Nysson*, incorrect original hyphenation). Type species: *P fasciatus* Radoszkowski, 1876, by monotypy.

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

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

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

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

Revisions: Arnold, 1924 (Afrotropical species); Gussakovskij, 1937 (Palearctic Region); Krombein, 1949b (in revision of Aculeates of Micronesia); Yasumatsu, 1953 (review of species of Micronesia); de Beaumont, 1961d:54 (Mediterranean species); Menke, 1988a (New World species); Antropov, 1994b (*agile* species group).

Keys: R. Turner, 1916g (Australia, India, sub-Saharan Africa); Bridwell, 1919b:123 (Hawaii); Yasumatsu, 1939b:82 (Japan, China, Russian Far East); Leclercq, 1965a:69 (Afrotropical species); Tsuneki, 1983a:102 (Philippines), 1983c (New Guinea); T. Li and Q. Li, 2011:62 (China).

Nest parasite of *Pison* sp. in the Ivory Coast: Rasplus, 1987:175 (*Neoleucospis masculina* Bouček).

Review of biology: Kazenas, 2001b:171.

1. *abathes* Menke

Pison abathes Menke, 1988a:43, ♀. Holotype: ♀, Ecuador: Pichincha: Río Palanque Research Station (Prov. Mus. Alberta). – Menke, 1992a:8 (Costa Rica); Hanson and Menke, 1995:639 (known from Costa Rica); Amarante, 2002:46 (in catalog of Neotropical Crabronidae).

2. *aberrans* R. Turner

Pison aberrans R. Turner, 1908:519, ♂. Holotype or syntypes: ♂, Australia: Queensland: Mackay (BMNH). – R. Turner, 1908:458 (figure of forewing), 1916g:596 (in key to Australian *Pison*), 601 (diagnostic characters); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:257 (in catalog of Australian Sphecidae).

3. *abothrum* Menke

Pison abothrum Menke, 1988a:67, ♀, ♂. Holotype: ♀, Colombia: Putumayo: Villa Garzón (BMNH). Paratype: Brazil: Mato Grosso. – Amarante, 2002:46 (in catalog of Neotropical Crabronidae).

4. *agile* (F. Smith)

Parapison agile F. Smith, 1869a:300, ♀ (as *agilis*, incorrect original termination). Lectotype: ♀, Sri Lanka: no specific locality (BMNH), designated by Antropov, 1994b:121. – Kohl, 1885a:186 (new combination, in checklist of world *Pison*); Cameron,

1889c:117 (in checklist of Oriental *Pison*); Bingham, 1896a:441 (references), 1897:222 (in revision of Indian and Pakistani aculeates); Dalla Torre, 1897:710 (in catalog of world Hymenoptera); R. Turner, 1916g:595 (in key to *Pison* of India), 616 (comparison with *Pison erythropus*, as *agilis*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); nec Menke, 1988a:38 (= *Pison koreense*); nec Krombein, 1979b:1641 (= *Pison koreense*); nec Kurczewski and Miller, 1991:254 (= *Pison koreense*); Antropov, 1994b:121 (in revision of *agile* species group of *Pison*; distribution: southern India, Sri Lanka).

5. *agiloides* Antropov

Pison agiloides Antropov, 1994b:127, ♀. Holotype: ♀, Sri Lanka: Ratnapura District: Belihuloya Resthouse (USNM).

6. *algericum* Kohl

Pison algericum Kohl, 1898a:353, ♀, ♂. Syntypes: Algeria: Oran (NHMW and TMB). – R. Turner, 1916g:620 (diagnostic characters); Gussakovskij, 1937:630 (original description copied); Bischoff, 1933:6 (Morocco: Rabat); de Beaumont, 1957a:149 (Morocco), 1961d:55 (in revision of Mediterranean *Pison*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae).

7. *allonymum* W. Schulz

Pison iridipenne Cameron, 1905g:261, ♂ (as *iridipennis*, incorrect original termination), junior primary homonym of *Pison iridipenne* F. Smith, 1879. Holotype or syntypes: ♂, South Africa: Cape Province: Dunbrody (BMNH).

Pison allonymum W. Schulz, 1906:213. Substitute name for *Pison iridipenne* Cameron, 1905. – R. Turner, 1916g:595 (in key to Afrotropical *Pison*), 622 (diagnostic characters); Arnold, 1924:3 (in revision of southern African *Pison*), 1930:9 (in checklist of Afrotropical Sphecidae), 1935a:499 (South Africa: Kalahari), 1951:97 (Ethiopia: Haramaia); Leclercq, 1965a:72 (in key to Afrotropical *Pison*), 73 (bibliographic references; Zaire: Garamba National Park); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Gess, 1981:17 (South Africa: Hilton Farm 18 km west-northwest of Grahamstown; nesting in old or abandoned nests of *Bembecinus cinguliger* (F. Smith) and *B. oxydorcus* (Handlirsch)), 25 and 53 (nesting in vertical banks, in modified pre-existing cavities), 59 (possibly nesting both in vertical banks and flat substrate), 70 (nesting in pre-existing cavities); Schmid-Egger, 2011b:574 (first record from United Arab Emirates: Wadi Madaq, Wadi Safad; comparison with *Pison atrum*), 2014:591 (United Arab Emirates).

Pison rhodesianum Bischoff, 1913c:75, ♀. Holotype: Zimbabwe: Bulawayo (SAM). Synonymized with *Pison allonymum* by Arnold, 1924:3. – R. Turner, 1916g:595 (in key to Afrotropical *Pison*), 622 (similar to *Pison ater*).

Pison allonymum race *karrooensis* Arnold, 1924:3, ♀, ♂. Syntypes: South Africa: Eastern Cape Province: Willowmore (TMP). Synonymized with *Pison allonymum* by Leclercq, 1965a:73. – Arnold, 1927:118 (this subspecies, not the nominotypical race, is identical to *Pison iridipennis* Cameron), 1930:9 (in checklist of Afrotropical Sphecidae).

As *Pison ? montanum*: Gess and Gess, 1975:40 (usurping nests of *Bembecinus oxydorcus*), corrected to *Pison allonymum* by Gess, 1981:17.

8. *angullabium* Wu and Zhou

Pison angullabium Wu and Zhou, 1996a:97, ♀, ♂. Holotype: ♀, China: Zhejiang: Tienmushan (Inst. Zool., Acad. Sinica, Beijing). – Li and He, 2004:1102 (in hymenopterous fauna of Zhejiang Province, China); T. Li, and Q. Li, 2011:62 (in key to *Pison* of China).

9. *arachniraptor* Menke

Pison arachniraptor Menke, 1988a:62, ♀, ♂. Holotype: ♀, Ecuador: Zamora-Chinchipe: Zumbi (USNM). Paratypes: Panama to Bolivia and Brazil: Goias. – Dollfuss, 1989:11 (paratype in NHMW); Menke, 1992a:8 (Costa Rica), 1992b:10 (Colombia); Hanson and Menke, 1995:639 (known from Costa Rica); Amarante, 2002:46 (in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:12 (in checklist of Crabronidae of Peru).

10. *aranevorax* Menke

Pison aranevorax Menke, 1988a:68, ♀, ♂. Holotype: ♀, Colombia: Narino: Barbacoas (BMNH). Paratypes: Ecuador, Peru, eastern Brazil. – Menke, 1992b:10 (Brazil); Amarante, 2002:46 (in catalog of Neotropical Crabronidae); Cambra, 2005:102 (Panamá); Rasmussen and Asenjo, 2009:12 (in checklist of Crabronidae of Peru).

11. *areniferum* Evans

Pison areniferum Evans, 1981:422, ♀. Holotype: ♀, Australia: Queensland: Amby (Queensland Mus. Brisbane). – Cardale, 1985:257 (in catalog of Australian Sphecidae).

12. *argentatum* Shuckard

Pison argentatum Shuckard, 1838:79, ♀ (as *argentatus*, incorrect original termination). Holotype or syntypes: ♀, Mauritius: no specific locality (OXUM). – **As *Pison argentatum***: Le Guillou, 1842:320 (Singapore); F. Smith, 1856:314 (in catalog of Hymenoptera in British Museum); Kohl, 1885a:186 (in checklist of world *Pison*); de Saussure, 1892:528 (Madagascar, redescription); Bingham, 1897:220 (in revision of Indian and Pakistani aculeates); Dalla Torre, 1897:710 (in catalog of world Hymenoptera); R. Turner, 1911b:371 (Seychelles Islands); Bordage, 1912:32 (Isle of Réunion: nesting habits, occasional cleptoparasitism using nests of *Sceliphron hemipterum*, now *fuscum*); Kohl in Bordage, 1912:86 (description of ♂); R. Perkins, 1912:727 (introduced into Hawaii); R. Turner, 1916g:594 (in key to Afrotropical *Pison*), 619 (introduced to Hawaii); Bridwell, 1919b:123 (in key to Hawaiian *Pison*); F. Williams, 1919:143 (Philippines: Los Baños); Swezey, 1921:522 (Hawaiian Islands: Kauai); Maidl, 1924:234 (Sudan: Atbara), 1925a:390 (Indonesia: Sumatra); Guiglia, 1928:500 (Somalia); Pagden, 1934a:459 (Malay Peninsula: nests constructed of mud, prey: Lycosidae spiders; nest parasites: mutillid *Smicromyrme decora* (F. Smith) and bombyliid *Petrorossia ceylonica* Brunetti; hyperparasite: *Melittobia hawaiiensis* Perkins); Swezey, 1942:185 (Guam, nesting habits); Arnold, 1945:3 (in key to *Pison* of Madagascar); Krombein, 1949b:384 (in key to Sphecidae of Micronesia), 403 (diagnostic characters; Mariana and Caroline Islands), 1950b:139 (Micronesia: island of Yap); Vesey-Fitzgerald, 1956b:362 (Seychelles); Evans, 1957b:98 (description of larva); Yoshimoto, 1960:334 (Hawaiian Islands); Tsuneki, 1963c:11 (Thailand); Iwata, 1964b:374 (nesting habits in Thailand); Yoshimoto, 1965:291 (nesting habits); Baltazar, 1966:335 (in catalog of Hymenoptera of Philippines); Tsuneki, 1974b:636 (Thailand); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Casolari and Casolari Moreno, 1980:114 (specimens in M. Spinola collection); Tsuneki, 1983a:89 (Philippines; comparison with *Pison ignavum*), 102 (in key to *Pison* of Philippines); Radović, 1985:65 (sting apparatus analyzed); Callan, 1990:20 (New Caledonia: no specific locality); Madl, Matyot, and Schödl, 1996:832 (Seychelles Islands); D. Baker, 1998:173 (origin and depository of type material); Kami and Miller, 1998:57 (in checklist of Samoan insects); Pulawski, 2003b:797 (in checklist of Malagasy Sphecidae); Starr, 2004:565 (nesting habits); Evenhuis, 2007:6 (in checklist of Hymenoptera of Fiji); Terayama and Nambu, 2009:5, 18 (in key to Trypoxylini of Japan); Haneda, 2011:46 (Philippines: Palawan: Iwahig and Puerto Princesa); Pagliano, 2011a:114 (specimens in coll. Spinola, Torino, are *Pison* sp.); Jennings, Krogmann, and Burwell, 2013:32 (in checklist of Hymenoptera of New Caledonia); Madl, 2014a:976 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records). – **As *Pisonitus argentatus***: F. Smith, 1869a:298 (new combination, in checklist of *Pisonitus*), 1871a:366 (in catalog of Oriental Aculeata).

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

Pisonitus argenteus Ashmead, 1904d:131, ♀. Holotype: ♀, Philippines: Bacoor (USNM). Synonymized with *Pison argentatum* by R. Turner, 1916g:619. – Ashmead, 1904d:150 (Philippines); R. Brown, 1906:687 (in catalog of Philippine Hymenoptera).

ssp. hanedai Tsuneki

Pison hanedai Tsuneki, 1973a:17, ♂. Holotype: ♂, Japan: Bonin Islands: Island of Chichidzima (Y. Haneda coll.). – Haneda, 1973:30 (Japan: Bonin Islands: Chichijimas Islands); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae). – **As *Pison argentatum hanedai***: Tsuneki, 1984a:4 (Ogasawara = Bonin Islands, new status); Takahashi, 2010:19 (Japan: in list of Hymenoptera of Ogasawara = Bonin islands).

13. *ashmeadi* R. Turner

Pison punctulatum Ashmead, 1905:960, ♂ (as *punctulatus*, incorrect original termination), junior primary homonym of *Pison punctulatum* Kohl, 1884. Holotype: ♂, Philippines: Manila (USNM).

Pison ashmeadi R. Turner, 1916g:625. Substitute name for *Pison punctulatum* Ashmead. – Baltazar, 1966:335 (in catalog of Hymenoptera of Philippines); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Tsuneki, 1983a:91 (Philippines; redescription), 102 (in key to *Pison* of Philippines); Haneda, 2011:46 (Philippines: Palawan: Iwahig and Puerto Princesa).

Pison murotai Tsuneki, 1983a:84, ♂. Holotype: ♂, Philippines: Mindanao: Zamboanga (originally K. Tsuneki coll., now USNM). Synonymized with *Pison ashmeadi* by Tsuneki, 1984c:58. – Tsuneki, 1983a:102 (in key to *Pison* of Philippines); Nuhn and Menke, 1994:27 (holotype not transferred to USNM, possibly returned to T. Murota, the collector); Menke, 1995:14 (type still in K. Tsuneki collection); Tano, 1995:45 (holotype in K. Tsuneki collection).

14. *assimile* Sickmann

Pison assimile Sickmann, 1894:212, ♀. Holotype or syntypes: China: Hopei Province: Tientsin (Münster). – Dalla Torre, 1897:710 (in catalog of world Hymenoptera); R. Turner, 1916g:620 (bibliographic reference); Gussakovskij, 1937:626 (original description copied); Yasumatsu, 1939b:83 (in key to *Pison* of eastern Asia); Tsuneki, 1971m:13 (China: Peking; comparison with *Pison insigne*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Hua, 2006:282 (in list of Chinese insects, geographic distribution); T. Li, and Q. Li, 2011:62 (in key to *Pison* of China).

15. *atripenne* Gussakovskij

Pison atripenne Gussakovskij, 1938:5, ♂. Holotype: ♂, China: Kiangsu Province: no specific locality (Mus. Stockholm). – R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Wu and Zhou, 1996a:98 (in revision in Economic Insect Fauna of China); Hua, 2006:282 (in list of Chinese insects, geographic distribution); T. Li, and Q. Li, 2011:62 (in key to *Pison* of China).

16. *atrum* (Spinola)

Alyson ater Spinola, 1808:253, sex not indicated. Lectotype: ♂, Italy: Liguria: Marassi near Genova (Torino), designated by de Beaumont, 1952e:42. – **As *Pison ater***: Shuckard, 1838:75 (new combination); F. Smith, 1856:313 (in catalog of Hymenoptera in British Museum), 1869a:289 (in checklist of *Pison*); A. Costa, 1867c:152 and 1871b:81 (in revision of Italian Sphecidae); Dours, 1874:140 (in catalog of Hymenoptera of France); Girard, 1879:957 (morphology and habits); Perris, 1877:383 (nesting site); J. Lichtenstein, 1878:CVII (nesting in bramble twigs), 1879:43 (France: Camargue, nesting in reed stems); Ferton, 1908:558 (search for prey), 1910:153 (nest structure); R. Turner, 1916g:619 (diagnostic characters); Rudow, 1912:46 (description of nest); Ceballos, 1949:101 (Spain). – **As *Pison atrum***: Kohl, 1885a:184 (in revision of Larrini), 186 (in checklist of world *Pison*), 1893:29 (Austria: Niederösterreich); Dalla Torre, 1897:710 (in catalog of world Hymenoptera); Mocsáry, 1897:77 (Hungary: one specimen from Budapest); Antiga and Bofill, 1904:13 (Spain: Cataluña Province); Mantero, 1905:74 (Italy: Toscana: Isola del Giglio); Móczár and Henter, 1907:205 (Hungary: Pécs); Schmiedeknecht, 1907:250 (in key to Hymenoptera of Central Europe); de Gaulle, 1908:122 (in catalog of French Hymenoptera); Rudow, 1912:46 (description of nest); Zilahi Kiss, 1915:80 (Hungary: Orehovica); Ferton, 1923:68 (nesting habits); Berland, 1925d:152 (in Sphecid Fauna of France); Coulon, 1925:126 (Java); Berland, 1928b:179 (France: Allier: Moulins); Schmiedeknecht, 1930:711 (in keys to Hymenoptera of North and Central Europe); Micheli, 1933:6 (description of nest and larva); Nadig, 1933:77 (Morocco: Asni, Tizi n'Tichka); Giner Marí, 1934:136 (Spain); Maidl, 1934:64 (Greece: Aegean Islands: Amorgos); Bernard, 1935:66 (France: Var: Fréjus area); Grandi, 1935a:111 (Italy); Maneval, 1935:75 (France: Haute-Loire: Puy); Grandi, 1937:305 (nesting in dry stems of *Phragmites communis*, parasites); Gussakovskij, 1937:628 (in revision of Palearctic *Pison*; in USSR: Crimea, Caucasus); Zavadil, 1937a:74 (eastern Slovakia); Zavadil, Šusterka, and Bat'a, 1937:221 (in catalog of Sphecidae of Czechoslovakia: Slovakia: Seľška); Móczár, 1938c:80 (Hungary: Kőszeg Hills); Zavadil, 1939:122 (Slovakia: Nitra); Giner Marí, 1943a:214 (in Sphecid Fauna of Spain); Guiglia, 1944a:149 (Cyprus: Limassol; var.?); de Beaumont, 1947b:396 (Cyprus); Guiglia, 1948c:202 (Italy: Sardegna: Villasalto); Šnoflak in Zavadil and Šnoflak, 1948:57 (in key to Sphecidae of Czechoslovakia); de Andrade, 1949:20 (Portugal); Pittioni, 1950:26 (Cyprus); Balthasar, 1954d:182 (Slovakia); Vogrin, 1955:40 (Yugoslavia); Ceballos, 1956:391 (in catalog of Hymenoptera of Spain); Bajári, 1957a:68 (in key to Hungarian Sphecidae); de Beaumont, 1957a:149 (Morocco); Evans, 1957b:99 (discussion of larval characters); Balthasar, 1958:339 (Slovakia: Nitra: Štúrovo); Nouvel and Ribaut, 1958:15 (France: Pyrénées-Orientales: Banyuls-sur-Mer); Diniz, 1959:31 (Portugal: Lisboa, Vale de Gaio); de Beaumont, 1960a:21 (Greece: Island of Rhodes), 1961c:51 (Greece: Island of Crete), 1961d:54 (in revision of Mediterranean *Pison*); Grandi, 1961:184 (nesting habits); de Beaumont, 1962b:27 (Spain); Ceballos, 1964:93 (in supplement to catalog of Spanish Sphecidae); de Beaumont, 1965a:55 (Greece); Scobiola-Palade, 1965:112 (first record from Romania: Giurgiu Region: Comana, Gorj Region: Tismana, Tulcea Region: Periprava); Benedek, 1968:74 (Hungary, visiting flowers of *Anethum graveolans* L., Apiaceae); Scobiola-Palade, 1968b:143 (Romania: Island of Letea in delta of Danube), 1968c:385 (Romania: Comana); Benedek, 1969b:421 (Hungary: Csopak, collected in vicinity of aphid *Hyalopteritena pruni* (Geoffroy)); Balthasar, 1972:221 (in Sphecid Fauna of Czechoslovakia); Scobiola-Palade, 1972:150 (Romania: delta of Danube: Caraorman); Erlandsson, 1974:76 (Italy, Yugoslavia);

Scobiola-Palade, 1974:145 (Romania: Sărăturile sandbank in Danube delta); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Georghiou, 1977:191 (Cyprus); Guichard, 1978:271 (Greece); Kazenas, 1978b:145 (in key to Sphecidae of Kazakhstan and Central Asia); Pulawski, 1978:252 (in key to Sphecidae of European part of former USSR); Benedek, 1979:232 (Hungary: Bakony Hills); Guichard, 1980:228 (Oman); Pagliano, 1980:129 (Italy: Liguria); Gayubo, 1982a:112 (N Spain: Sierra de Béjar), 1982f:257 (Spain: Cádiz Province); Dollfuss, 1983b:12 (in catalog of Sphecidae of Austria: Wien, 1886); Gayubo, 1984b:89 (Spain: Salamanca Province), 1984c:372 (Portugal: El Algarve Province); Józán, 1985b:57 (Hungary south of Lake Balaton), 78 (floral records), 84 (ecological and zoogeographic characteristics); Scobiola-Palade, 1985:97 (Romania: delta of Danube); Gayubo, 1986c:34 (Spain: Zamora Province); Gayubo and Sanza, 1986:54 (Spain: Burgos, Segovia); Gayubo and Mingo, 1988:87 (Spain); Amiet, 1989:290 (first record from Switzerland); Józán, 1989:101 (Hungary: Tihany Nature Reserve); Pádr *in* Šedivý, 1989a:169 (in checklist of Czechoslovakian Sphecidae); Scobiola-Palade, 1989:88 (Romania: delta of Danube); Gayubo, Asís, and Tormos, 1990a:19 (Spain); Pagliano, 1990:109 (in catalogue of Italian Sphecidae); Dollfuss, 1991:120 (in key to Sphecidae of North and Central Europe); Schembri, 1991:181 (first record from Malta); Józán, 1992b:173 (Hungary: Boronka-melléki Protected Area), 1992c:289 (Hungary: Zselic Hills); Hohmann, La Roche, Ortega, and Barquín, 1993:229 (first record from Canary Islands: Tenerife); Torregrosa, Gayubo, Tormos, and Asís, 1993:19 (Spain: Alicante Province); Tormos, Asís, and Gayubo, 1994:188, 210 (Spain: Albacete Province); Gusenleitner, 1995:162 (Austria: Steiermark); Józán, 1995:105 (Hungary: projected Duna-Dráva National Park); Negrisoló *in* Minelli, Ruffo, and La Posta, 1995b:10 (in catalog of Italian fauna); Pagliano and Scaramozzino, 1995:730 (Italy: Island of Lampedusa); Scharrer, 1995:24 (Croatia: Island of Krk); Minoranskiy and Shkuratov, 1996:82 (Russia: Rostov Oblast'); Gusenleitner, 1998:499 (Austria: new locality records); Gonzáles, Gayubo, and Torres, 1998:74, 75 (Spain: Valladolid Province); Józán, 1998:311 (Hungary: Duna-Dráva National Park); Gayubo, García, Torres, and González, 1999:90 (Spain: Soria Province); Majzlan, Rychlík, and Deván, 1999:146 (Slovakia: Čenkovská Step Nature Reserve); Gayubo, González, and Torres, 2000:186 (Spain: Salamanca Province); Giachino, Grosso, Marchetti, Pagliano, Scaramozzino, and Vailati, 2000:107 (Greece); Józán, 2000:108 (Hungary: Bakony Mountains); Antropov *in* Bitsch et al., 2001:353 (in Sphecid Fauna of Western Europe); Ivanov and Ljubomirov, 2001:212 (Bulgaria: Kresna Gorge at 41°48'N 23°10'E); Józán, 2001:279 (Hungary: Somogy County); Zettel, Gross, and Mazzucco, 2001:73 (Austria: Wien); Józán, 2002:53 (Hungary: Mecsek Mountains); Generani, Pagliano, Scaramozzino, and Strumia, 2003:66 (Italy: Arcipelago Toscano); Nieves-Aldrey, Fontal-Cazalla, Garrido-Torres, and Rey del Castillo, 2003:42 (Spain: Madrid: Estación Biogeológica de El Ventorrillo in Sierra de Guadarrama); Pagliano, 2003b:129 (Italy: Islands of Lampedusa and Pantelleria); Schmid-Egger, 2003:756 (Italy: Sicilia: Castelammare); Deván, 2004:147 (western Slovakia); Gayubo, Nieves-Aldrey, González, Tormos, Rey del Castillo, and Asís, 2004:108 (Spain: Madrid: Monte de El Pardo); Shkuratov, 2004a:78 (Russia: Rostov Oblast': village Nedvigovka); Zettel, 2004:5 (Austria: Wien); Cruz-Sánchez, Gayubo, González, and Torres, 2005:220 (Spain: Salamanca: San Martín del Castañar); Herrmann, 2005:4 (first record from Germany: Baden-Württemberg: Konstanz); Pagliano and Negrisoló, 2005:407 (in Sphecid Fauna of Italy); Shorenko, 2005:164 (Ukraine: Crimea), 2005b:98 (Ukraine: Crimea: Karadagh Nature Reserve); Standfuss and Standfuss, 2006b:98 (Greece: Thessalia: Magnisia Peninsula at 39°N 23°E); Baños-Picón, Gayubo, Asís, and González, 2007:257 (Spain: Zamora: Cabañas de Aliste); Bitsch, Dollfuss, Bouček, Schmidt, Schmid-Egger, Gayubo, Antropov, and Barbier, 2007:461 (first recorded from Germany by Saure, 2006); Herrmann, 2007b:95 (Germany: Baden-Württemberg: Fürstenberg in Konstanz); Jacobs, 2007:108 (in key to Crabronidae of Germany); Józán, 2007:179 (Hungary: Zselic hills); Sipos and Móczár, 2007:205 (Hungary: vicinity of Foktő); Vepřek and Straka, 2007:203 (in catalog of Sphecidae of Czech Republic and Slovakia, known only from Moravia and Slovakia), 224 (first record from Czech Republic: Moravia: Boří Les railway station); Gayubo, González, Tormos, and Asís, 2008:139 (Spain: Salamanca: Parque Natural de Las Batuecas – Sierra de Francia), 2009:364 (Spain: Valladolid: Reserva Natural Riberas de Castronuño – Vega del Duero); González, Gayubo, Asís, and Tormos, 2009:624 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park); Guéorguiev and Ljubomirov, 2009:264 (Bulgaria: Maleshevska Planina); Józán, 2009:166 (Croatia); Shorenko, 2009:367 (in list of Sphecidae s.l. of Crimea); Schmid-Egger, 2010a:18 (in red list of Aculeata of Germany: relatively common); van der Smissen, 2010b:386 (France: Ardèche: Saint-Thomé); Bogusch, Straka, Macek, Dvořák, Vepřek, and Říha, 2011:95 (Czech Republic: Chotíkov, Píсты); Cruz-Sánchez, Asís, Gayubo, Tormos, and González, 2011:499 (Spain: Salamanca and Zamora provinces: Arribes del Duero Natural Park: effects of wildfire); Gogala, 2011:16 (Slovenia); Józán, 2011:180 (in checklist of Sphecidae s.l. of Hungary); Tischendorf, Frommer, Flügel et al., 2011:184 (known from Germany, but not from Hessen); Amolin, 2012:29 (Ukraine: Donetsk); U. Frommer, 2012:187 (Germany: probable recent migrant through Rhône-Rhein trench and Czech Basin); Vieira, Oliveira, Brewster, and Gayubo, 2013:18 (Portugal: Douro International Natural Park, Serras de Aire e Candeeiros Natural Park,

and Paúl do Boquilobo Nature Reserve); Baldock, 2014:355 (Spain: Island of Mallorca); Reder and Niehuis, 2014:7 (Germany: Osthofen); Atbaei, Fallahzadeh, and Ljubomirov, 2015:21 (Iran: Fars Province); P. Rosa and Pagliano, 2015:105 (Italy: Lombardia and Piemonte: Parco del Ticino); Mokrousov and Popov, 2016:584 (Russia: Krasnodarskiy Krai); Schmid-Egger, Dandria, and Xuereb, 2016:80 (in checklist of Crabronidae of Maltese Islands); Yildirim, Ljubomirov, Özbek, and Yüksel, 2016:39 (Turkey: Karabük); Antropov, 2017b:2443 (in catalog of Crabroninae of Russia); Jahantigh, Rakhshani, Mokhtari, and Ramroodi, 2017:69 (Iran: known from Fars Province). Pagliano, 2017:189 (Italy: Island of Lampedusa); Shoreenko, 2017:77 (in Crimea collected in August and September). – **As *Dolichurus atrum***: Graeffe, 1911:49 (new combination, Italy: Trieste area).

Pison jurinei Spinola, 1808:256, sex not indicated (as *Jurini*, incorrect original capitalization and termination). Lectotype: ♂, Italy: Liguria: no specific locality (Torino), designated by de Beaumont, 1952e:42. Synonymized with *Pison atrum* by Shuckard, 1838:75, synonymy confirmed by de Beaumont, 1952e:42 (as new synonym). – Vander Linden, 1829:41 (bibliographic references, southern France, Italy: Genova); Lepeletier de Saint Fargeau, 1845:230 (in revision of world Hymenoptera); S. Saunders, 1873:413 (description of pupa); A. Costa, 1882b:23 (Italy: Sardegna); Kohl, 1883e:657 (Switzerland); A. Costa, 1884b:33 (Italy: Sardegna: Gavoi); Acloque, 1897:92 (in Sphecidae Fauna of France and Algeria); Pagliano, 2011a:114 (lectotype and paralectotype of *Pison atrum* in coll. Spinola, Torino).

Tachybulus niger Latreille, 1809:75, ♀. Syntypes: ♀, France: Brive and Italy: Genova (destroyed). Synonymized with *Pison atrum* by Shuckard, 1838:75.

Pison montanum Cameron, 1908a:289, ♂ (as *montanus*, incorrect original termination). Holotype or syntypes: ♂, Tanzania: Mount Kilimanjaro: Kibonoto (NRS). Synonymized with *Pison atrum* by Pulawski, 2016a:329 – R. Turner, 1916g:595 (in key to Afrotropical *Pison*), 621 (bibliographic reference); Arnold, 1924:4 (in revision of southern African *Pison*), 1930:9 (in checklist of Afrotropical Sphecidae), 1933a:354 (Ethiopia: Addis Ababa), 1951:97 (Ethiopia: Dilla), 1960a:82 (South Africa: KwaZulu-Natal: Drakensberg Mountains); Leclercq, 1965a:72 (in key to Afrotropical *Pison*), 75 (Zambia: Kalabo; similar to *Pison atrum*); de Beaumont, 1967b:511 (South Africa: Cape Province); nec Gess and Gess, 1975:40 (= *Pison allonymum*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Rodgers and Homewood, 1982:233 (Tanzania: Usambara Mountains); Gess, 1981:25 (South Africa: 18 km west-northwest of Grahamstown; nesting in vertical banks in modified pre-existing cavities), 30 (nesting in plant stems, prey), 47 (multiple prey), 60 (nesting both in vertical banks and plant tissue), 70 (partition wall in the nest; nesting habits advanced), 71 (parasite: *Chrysis inops* Gribodo, now in *Praestochrysis*).

17. *auratum* Shuckard

Pison auratum Shuckard, 1838:78, ♀ (as *auratus*, incorrect original termination). Holotype or syntypes: ♀, South Africa: Cape Province?: no specific locality, correctly: Australia (BMNH). – F. Smith, 1856:314 (in catalog of Hymenoptera in British Museum), 1869a:290 (in checklist of *Pison*); Kohl, 1885a:186 (in checklist of world *Pison*); Froggatt, 1892:216 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:710 (in catalog of world Hymenoptera); R. Turner, 1916g:599 (in key to Australian *Pison*), 614 (comparison with *Pison aureosericeum*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Naumann, 1983b:149 (Australia; nesting habits); Cardale, 1985:257 (in catalog of Australian Sphecidae); Naumann 1993:184 (Australia: Queensland: Heathlands area in Cape York); D. Baker, 1898:173 (origin and depository of type material); Naumann, 1998:185 (Australia: north-west Queensland: Musselbrook area, approximately 18°40'S 138°23'E).

18. *aureosericeum* Rohwer

Pison aureosericeum Rohwer, 1915:246, ♀, ♂. Holotype: sex not indicated, Australia: Queensland: Duaringa in Dawson District (USNM). – R. Turner, 1916g:599 (in key to Australian *Pison*), 614 (comparison with *Pison pulchrinum*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:257 (in catalog of Australian Sphecidae); Pagliano, 2003a:508 (Australia: first record from Northern Territory).

19. *aurifex* F. Smith

Pison aurifex F. Smith, 1869a:293, ♀, ♂. Syntypes: Australia: no specific locality (BMNH). – Kohl, 1885a:186 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:710 (in catalog of world Hymenoptera); R. Turner, 1916g:598 (in key to Australian *Pison*), 612 (recognition characters); von Schulthess, 1935:306 (Australia: Northern Territory: Marakai, determination tentative, as *aurifer*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:257 (in catalog of Australian Sphecidae).

20. auriventre R. Turner

Pison auriventre R. Turner, 1908:512, ♀. Holotype or syntypes: ♀, Australia: Victoria: no specific locality (BMNH). – R. Turner, 1916g:598 (in key to Australian *Pison*), 608 (golden pilosity on gaster; Australia: Queensland: Brisbane); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Evans, 1981:425 (nesting habits); Cardale, 1985:258 (in catalog of Australian Sphecidae).

21. baguione Tsuneki

Pison baguione Tsuneki, 1983a:97, ♂, ♀. Holotype: ♂, Philippines: Luzon: Baguio: Mines View Park (originally K. Tsuneki coll., now USNM). – Tsuneki, 1983a:102 (in key to *Pison* of Philippines); Nuhn and Menke, 1994:26 (holotype not transferred to USNM, possibly returned to C. Nozaka, the collector); Menke, 1995:14 (type still in K. Tsuneki collection); Tano, 1995:45 (holotype in K. Tsuneki collection).

22. barbatum Evans

Pison barbatum Evans, 1981:424, ♀. Holotype: ♀, Australia: Queensland: Port Douglas (Queensland Mus. Brisbane). – Cardale, 1985:258 (in catalog of Australian Sphecidae).

23. basale F. Smith

Pison basale F. Smith, 1869a:292, ♀ (as *basalis*, incorrect original termination). Holotype or syntypes: ♂, Australia: no specific locality (BMNH). – Kohl, 1885a:186 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:710 (in catalog of world Hymenoptera); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); R. Turner, 1916g:598 (in key to Australian *Pison*, as *basalis*), 615 (recognition characters); Cardale, 1985:258 (in catalog of Australian Sphecidae).

24. biroi Tsuneki

Pison biroi Tsuneki, 1983c:46, ♀. Holotype: ♀, Papua New Guinea: Huon Golf: Simbang (TMB). – Tsuneki, 1983c:42 (in key to *Pison* of New Guinea).

25. bismarckianum Tsuneki

Pison bismarckianum Tsuneki, 1982a:41, ♀, ♂. Holotype: ♀, Papua New Guinea: New Britain: Yalom (ZMUC). – Tsuneki, 1983c:42 (in key to *Pison* of New Guinea), 45 (New Guinea; geographic variation).

26. brasiliium Menke

Pison brasiliium Menke, 1988a:61, ♂, ♀. Holotype: ♂, Brazil: Distrito Federal: Brasilia (BMNH). – Amarante, 1993:19 (northeastern Brazil), 2002:46 (in catalog of Neotropical Crabronidae).

27. browni (Ashmead)

Pisonoides browni Ashmead, 1905:961, ♂. Holotype: ♂, Philippines: Manila (USNM). – R. Brown, 1906:687 (in catalog of Philippine Hymenoptera). – **As *Pison browni***: R. Turner, 1916:617 (new combination, in revision of non-Australian Old World species); Baltazar, 1966:335 (in catalog of Hymenoptera of Philippines); Menke, 1968a:3 (member of subgenus *Krombeiniellum*, now *agile* species group); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Tsuneki, 1983a:81 (Philippines; redescription), 102 (in key to *Pison* of Philippines); Menke, 1988a:38 (member of the *agile* group of *Pison*); Antropov, 1994b:124 (in revision of *agile* species group of *Pison*); Wu and Zhou, 1996a:99 (in revision in Economic Insect Fauna of China); Hua, 2006:282 (in list of Chinese insects, geographic distribution); T. Li, and Q. Li, 2011:62 (in key to *Pison* of China).

28. cameronii Kohl

Pison fasciatum Kohl, 1884a:339, ♀, junior secondary homonym of *Pison fasciatum* (Radoszkowski, 1876). Syntypes: ♀, Mexico or Peru: no specific locality (NHMW). – Kohl, 1885a:186 (in checklist of world *Pison*); Cameron, 1889a:39 (reference to original description); Ashmead, 1899d:251 (in checklist of North American Crabronidae); Dollfuss, 1989:11 (holotype in NHMW).

Pison cameronii Kohl, 1893b:546, footnote (as *Cameronii*, incorrect original capitalization). Substitute name for *Pison fasciatum* Kohl. – Dalla Torre, 1897:710 (in catalog of world Hymenoptera); R. Turner, 1916g:628 (bibliographic reference to original description); Menke, 1968a:6 (in checklist of New World species of subgenus *Pison*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Menke, 1988a:64 (in revision of New World *Pison*); Callan, 1991a:8 (Trinidad); Menke, 1992a:8 (Costa Rica),

1992b:10 (Argentina), 1993d:11 (Costa Rica); Hanson and Menke, 1995:639 (known from Costa Rica); Braet, Cerda, and Fretey, 2000:8 (French Guiana); Cambra and Santos, 2000:53 (Panama: Parque Nacional Coiba in Isla de Coiba, Pacific Ocean); Amarante, 2002:46 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:664 (in checklist of Mexican Sphecidae); Starr and Hook, 2003:19 (in catalog of Aculeata of Trinidad, West Indies); Morato, Amarante, and Silveira, 2008:793 (Brazil: Acre: Parque Nacional da Serra do Divisor); Rasmussen and Asenjo, 2009:12 (in checklist of Crabronidae of Peru).

29. *carinatum* R. Turner

As *Pison xanthopus*: R. Turner, 1916g:594 (in key to Afrotropical *Pison*), 621 (diagnostic characters), corrected to *Pison carinatum* by R. Turner, 1917a:112; Arnold, 1924:9 (Turner's 1916 description summarized).

Pison carinatum R. Turner, 1917a:111, ♀, ♂. Syntypes: Ghana: Ashanti: Obuasi (BMNH); Uganda: Entebbe (BMNH); Egypt: Maadi (Dept. Agric. Egypt), Sierra Leone (BMNH). – Arnold, 1924:8 (original description copied), 1930:9 (in checklist of Afrotropical Sphecidae); Gussakovskij, 1937:623 (original description copied); Guiglia, 1939d:54 (Ethiopia: Sidamo: Malca Guba); de Beaumont, 1961d:56 (in revision of Mediterranean *Pison*); Leclercq, 1965a:70 and 73 (in key to Afrotropical *Pison*), 73 (bibliographic references, diagnostic characters, Zaire: Garamba National Park); de Beaumont, Bytinski-Salz and Pulawski, 1973:20 (Israel); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Guichard, 1980:228 (Oman); Rodgers and Homewood, 1982:233 (Tanzania: Usambara Mountains); Antropov, 1993b:53 (Central African Republic); Simon Thomas and Wiering, 1993:405 (Cape Verde Islands); Antropov *in* Bitsch et al., 2001:357 (in Sphecid Fauna of Western Europe); Roche, 2007a:100 and 2007b:6 (in checklist of Egyptian Ampulicidae, Sphecidae, and Crabronidae); Schmid-Egger, 2011b:574 (first record from United Arab Emirates: Fujairah, Wadi Safad), 577 (color photographs of male and female); Di Giovanni and Mei, 2012:42 (first records from Greece: Thessaloniki: Vasilika, and Italy: Lazio: Roma: San Paolo Fuori le Mura); Bitsch, 2014:405 (recent record from Greece and Italy reported).

Pison cyprium Gussakovskij, 1937:629, ♀. Syntypes: ♀, Cyprus: Limassol (ZIL). Synonymized with *Pison carinatum* by de Beaumont, 1961d:56. – Pittioni, 1950:27 (Cyprus); Georghiou, 1977:191 (Cyprus).

30. *chilense* Spinola

Pison chilense Spinola, 1851a:326, ♀, ♂ (as *chilensis*, incorrect original termination). Syntypes: Chile: Coquimbo and Santiago (Torino). – F. Smith, 1856:317 (in catalog of Hymenoptera in British Museum, as *chilensis*), 1869a:291 (in checklist of *Pison*); Kohl, 1885a:186 (in checklist of world *Pison*); E. Reed, 1894:633 (in revision of Chilean Sphecidae); Dalla Torre, 1897:710 (in catalog of world Hymenoptera); Brèthes, 1910b:145 (Chile); Ruiz Pereira, 1924:102 (Chile: Cerro San Cristóbal); Jaffuel and Piri6n, 1926:376 (Chile: valle de Marga Marga); Janvier, 1928:87 (nesting habits); C. Reed, 1928:316 (similarities in color with *Cerceris gayi* and the Diptera *Rhopalia paulseni* Phil. and *Microdetus dentitarsus*); Gazulla and Ruiz Pereira, 1929:300 (Chile: Hacienda de "Las Mercedes"); Ruiz Pereira, 1937:164 (Chile: Coquimbo Province, as *chilensis*); Menke, 1968a:6 (in checklist of New World species of subgenus *Pison*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Casolari and Moreno, 1980:114 (specimens in M. Spinola collection); Gess, 1981:70 (nesting habits of ancestral type); Sielfeld, 1980b:73 (in checklist of Chilean Sphecidae, as *chilensis*); Radović, 1985:65 (sting apparatus analyzed); Piek and Spanjer, 1986:187 (in list of Sphecidae with known prey); Menke, 1988a:71 (in revision of New World *Pison*); Amarante, 2002:46 (in catalog of Neotropical Crabronidae); Pagliano, 2011a:114 (specimens in coll. Spinola, Torino); Chiappa, 2012:8 (Chile: Región de Valparaíso: no specific locality).

31. *chrysops* Menke

Pison chrysops Menke, 1988a:55, ♀, ♂. Holotype: ♀, Costa Rica: Punta Arenas: Palmar (USNM). Paratypes: Costa Rica to northern Argentina and southern Brazil. – Dollfuss, 1989:11 (type material in NHMW); Hanson and Menke, 1995:639 (known from Costa Rica); Amarante, 2002:46 (in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:12 (in checklist of Crabronidae of Peru).

32. *chrysoptilum* Antropov

Pison chrysoptilum Antropov, 1994b:129, ♀. Holotype: ♀, Malaysia: Sarawak: Gn. Mulu (BMNH).

33. *ciliatum* Evans

Pison ciliatum Evans, 1981:423, ♀. Holotype: ♀, Australia: Queensland: Amby (Queensland Mus. Brisbane). – Cardale, 1985:258 (in catalog of Australian Sphecidae).

34. *collare* Kohl

Pison collare Kohl, 1884a:337, ♀. Holotype or syntypes: Papua New Guinea: Eastern New Britain: Duke of York Island (NHMW). – Kohl, 1885a:186 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:710 (in catalog of world Hymenoptera); R. Turner, 1916g:627 (diagnostic characters); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Dollfuss, 1989:11 (holotype in NHMW).

35. *conforme* F. Smith

Pison conforme F. Smith, 1869a:297, ♂ (as *conformis*, incorrect original termination). Holotype or syntypes: ♂, Mexico: no specific locality (BMNH). – Patton, 1880b:386 (in checklist of North American Larrinae); Kohl, 1885a:186 (in checklist of world *Pison*); Dalla Torre, 1897:710 (in catalog of world Hymenoptera); Cameron, 1889a:39 (reference to original description); Ashmead, 1899d:251 (in checklist of North American Crabronidae); R. Turner, 1916g:628 (bibliographic reference to original description); Menke, 1968a:6 (in checklist of New World species of subgenus *Pison*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Menke, 1988a:25 (in revision of New World *Pison*; west central Mexico to Peru), 1992a:8 (Costa Rica), 1993d:11 (Costa Rica, Ecuador); Hanson and Menke, 1995:639 (known from Costa Rica); Amarante, 2002:46 (in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:12 (in checklist of Crabronidae of Peru); Horta-Vega, Vanoye-Eligio, García-Gutiérrez, Coronado-Blanco, and Barrientos-Lozano, 2013:383 (Mexico: Tamaulipas: Ciudad Victoria: Cañón del Novillo).

36. *congener* R. Turner

Pison congener R. Turner, 1916g:607, ♀, ♂. Syntypes: Western Australia: Yallingup (BMNH). – R. Turner, 1916g:598 (in key to Australian *Pison*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:258 (in catalog of Australian Sphecidae).

37. *cressoni* Rohwer

Pison cressoni Rohwer, 1911b:570, ♂. Holotype: ♂, Nicaragua: San Antonio (USNM). – R. Turner, 1916g:628 (bibliographic reference to original description); Menke, 1968a:6 (in checklist of New World species of subgenus *Pison*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Menke, 1988a:53 (in revision of New World *Pison*; southern Mexico to Trinidad, Peru, and Brazil: Santa Catarina); Callan, 1991a:8 (Trinidad); Menke, 1992a:9 (Costa Rica), 1992b:10 (Brazil), 1993d:11 (Costa Rica); Hanson and Menke, 1995:639 (known from Costa Rica); Morato and O. Campos, 2000:434 (Brazil: Amazonas: 90 km north of Manaus; effects of habitat fragmentation); Amarante, 2002:46 (in catalog of Neotropical Crabronidae); Starr and Hook, 2003:19 (in catalog of Aculeata of Trinidad, West Indies); Rasmussen and Asenjo, 2009:12 (in checklist of Crabronidae of Peru).

Pison flavolimbatum R. Turner, 1917a:112, ♀. Lectotype: ♀, Guyana: Issororo (BMNH), designated by Menke, 1988a:53. Synonymized with *Pison cressoni* by Menke, 1988a:53. – Menke, 1968a:7 (in checklist of New World species of subgenus *Pison*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae).

Pison sp. (corrected to *Pison cressoni* by Menke, 1988a:53): Oniki, 1970a:726 (nest), 1970b:354 (nest, parasite).

38. *decipiens* F. Smith

Pison decipiens F. Smith, 1869a:295, ♂. Holotype or syntypes: ♂, Western Australia: Champion Bay, now Geraldton (BMNH). – Kohl, 1885a:186 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera), 1894:33 (nest structure; parasite: *Chrysis transversa* Smith); Dalla Torre, 1897:711 (in catalog of world Hymenoptera); R. Turner, 1916g:598 (in key to Australian *Pison*), 612 (comparison with *Pison dimidiatum*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:258 (in catalog of Australian Sphecidae).

39. *delicatum* Menke

Pison delicatum Menke, 1988a:35, ♂, ♀. Holotype: ♀, Venezuela: Zulia: Los Angeles del Tucucu (USNM). Paratypes: Colombia, Venezuela to northern Argentina and southern Brazil. – Dollfuss, 1989:11 (paratype in NHMW); Amarante, 1993:19 (northeastern Brazil); Cambra, 1993:16 (Peru: Pakitza at 11°57'S, 71°17'W); Amarante, 2002:47 (in catalog of Neotropical Crabronidae);

Rasmussen and Asenjo, 2009:12 (in checklist of Crabronidae of Peru); Silvestre, Demétrio, Trad, de Oliveira Lima, Auko, and de Souza, 2014:68 (Brazil: Mato Grosso do Sul: dry forests in Bodoquena Mountain Range and Brazilian Chaco).

40. *dementia* Menke

Pison dementia Menke, 1988a:66, ♀, ♂. Holotype: ♀, Brazil: Santa Catarina: Nova Teutonia (UCD). – Amarante, 2002:47 (in catalog of Neotropical Crabronidae, as *demetia*), 2005a:11 (correction to his 2002 catalog: *dementia* is correct).

41. *denticeps* Cameron

Pison denticeps Cameron, 1910:153, ♂. Holotype or syntypes: ♂, South Africa: Transvaal, now divided into Gauteng, Limpopo, Mpumalanga, and part of North-West: no specific locality (TMP). – R. Turner, 1916g:594 (in key to African *Pison*), 622 (comparison with *Pison xanthopus*, variation in wing venation); Arnold, 1924:9 (original description copied), 1930:10 (in checklist of Afrotropical Sphecidae); Leclercq, 1965a:70 (in key to Afrotropical *Pison*), 75 (bibliographic references); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae).

42. *deperditum* R. Turner

Pison deperditum R. Turner, 1917a:109, ♀. Holotype or syntypes: ♀, Australia: Northern Territory: Port Darwin (BMNH). – R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:258 (in catalog of Australian Sphecidae).

43. *differens* R. Turner

Pison differens R. Turner, 1916g:617, ♀. Lectotype: ♀, India: Assam: Shillong (BMNH), designated by Antropov, 1994b:124. – R. Turner, 1916g:595 (in key to *Pison* of India); Menke, 1968a:3 (member of subgenus *Krombeiniellum*, now *agile* species group); R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae; India, Java); Menke, 1988a:38 (member of the *agile* group of *Pison*); Antropov, 1994b:124 (in revision of *agile* species group of *Pison*).

44. *difficile* R. Turner

Pison difficile Turner, 1908:520, ♀. Holotype or syntypes: ♀, Australia: Queensland: Mackay (BMNH). – R. Turner, 1916g:595 (in key to Australian *Pison*), 599 (resembling *Icaria socialis* de Saussure, now *Ropalidia socialis*); Menke, 1968a:3 (has a semipetiolate gaster); R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae); Cardale, 1985:263 (in catalog of Australian Sphecidae).

45. *dimidiatum* F. Smith

Pison dimidiatum F. Smith, 1869a:295, ♂ (as *dimidiatus*, incorrect original termination). Holotype or syntypes: ♂, Australia: Western Australia: Champion Bay, now Geraldton (BMNH). – Kohl, 1885a:186 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:711 (in catalog of world Hymenoptera); R. Turner, 1916g:597 (in key to Australian *Pison*), 603 (recognition characters); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:258 (in catalog of Australian Sphecidae).

46. *dives* R. Turner

Pison dives R. Turner, 1916g:608, ♀. Holotype or syntypes: ♀, Australia: Queensland: Kuranda (BMNH). – R. Turner, 1916g:597 (in key to Australian *Pison*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:259 (in catalog of Australian Sphecidae).

47. *doggonum* Menke

Pison doggonum Menke, 1988a:26, ♀. Holotype: ♀, Mexico: no specific locality, corrected to Western Pacific Islands by Menke, 1990:154 (ZMUC). – Menke, 1990:154 (possibly a synonym of *iridipenne* F. Smith).

48. *duckei* Menke

Pison duckei Menke, 1968c:1103, ♂. Holotype: ♂, Brazil: Pará = Belém (NHMW). – R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae); Menke, 1988a:42 (in revision of New World *Pison*; Panama to central Brazil); Dollfuss, 1989:11 (holotype in NHMW); Callan, 1991a:8 (Trinidad); Amarante, 2002:47 (in catalog of Neotropical Crabronidae); Pinto, Fowler, Digiampietri Filho, and Gobbi, 2002:90 (nesting in nests of *Miscocyttarus cerberus styx* Richards, a polistine); Starr and Hook, 2003:19 (in catalog of Aculeata of Trinidad, West Indies); Amarante, 2005a:11 (correction to his 2002 catalog).

49. *erebus* Menke

Pison erebus Menke, 1988a:57, ♀. Holotype: ♀, Colombia: Caqueta: Yuruyaco, 73 km southwest of Florencia (BMNH). – Amarante, 2002:47 (in catalog of Neotropical Crabronidae).

50. *eremnon* Menke

Pison eremnon Menke, 1968a:5, ♀. Holotype: ♀, Brazil: Santarém (Carnegie Mus.). – Menke, 1968a:6 (in checklist of New World species of subgenus *Pison*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Menke, 1988a:33 (in revision of New World *Pison*; Colombia to Peru, Guyana and northern Brazil); Amarante, 2002:47 (in catalog of Neotropical Crabronidae), 2005a:11 (correction to his 2002 catalog); Rasmussen and Asenjo, 2009:12 (in checklist of Crabronidae of Peru).

51. *erimaense* Tsuneki

Pison erimaense Tsuneki, 1983c:50, ♀. Holotype: ♀, New Guinea: Madang Province: Erima (TMB). – Tsuneki, 1983c:42 (in key to *Pison* of New Guinea).

52. *erythrocerum* Kohl

Parapison ruficornis F. Smith, 1869a:300, ♀ (as *ruficornis*, incorrect original termination), junior secondary homonym of *Pison ruficornis* F. Smith, 1856. Holotype or syntypes: ♀, Australia: no specific locality (BMNH). – Froggatt, 1892:218 (in catalog of Australian Hymenoptera).

Pison erythrocerum Kohl, 1885a:186 (as *erythrocerus*, incorrect original termination). Substitute name for *Pison ruficornis* (F. Smith, 1869). – Dalla Torre, 1897:711 (in catalog of world Hymenoptera); R. Turner, 1916g:596 (in key to Australian *Pison*), 600 (bibliographic references, male clypeus; Queensland: Kuranda, Mackay); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:259 (in catalog of Australian Sphecidae).

53. *erythrogastrum* Rohwer

Pison erythrogastrum Rohwer, 1915:247, ♀. Holotype: ♀, Australia: Queensland: Duarina in Dawson District (USNM). – R. Turner, 1916g:595 (in key to Australian *Pison*), 599 (comparison with *Pison pertinax*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:259 (in catalog of Australian Sphecidae).

54. *erythropus* Kohl

Parapison rufipes F. Smith, 1869a:299, ♀, junior secondary homonym of *Pison rufipes* Shuckard, 1838. Lectotype: ♀, India: no specific locality (BMNH), designated by Antropov, 1994b:125.

Parapison rufipes F. Smith, 1870:188, ♀, objective synonym of *Parapison rufipes* F. Smith, 1869. Holotype or syntypes: ♀, India: North-West Provinces, now Uttar Pradesh: Mainpuri (BMNH). – Horne, 1870:165 (nesting habits).

Pison erythropus Kohl, 1884:183. Substitute name for *Pison rufipes* (F. Smith, 1869). – Cameron, 1889c:117 (in checklist of Oriental *Pison*); Bingham, 1897:221 (in revision of Indian and Pakistani aculeates); Dalla Torre, 1897:711 (in catalog of world Hymenoptera); Dutt, 1912:199 (nest, prey, cocoon); R. Turner, 1916g:595 (in key to *Pison* of India), 616 (bibliographic reference to original description); Pagden, 1934a:460 (Malay Peninsula; prey carrying; prey: *Mystes oonopiformis* Bristowe, a pholcid spider); nec Tsuneki, 1974b:637 (= *Pison rothneyi*). – R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Menke, 1988a:38 (possibly member of the *agile* group of *Pison*); Antropov, 1994b:125 (in revision of *agile* species group of *Pison*).

55. *esakii* Yasumatsu

As *Pison* sp.: Fullaway, 1913:283 (Guam) and Swezey, 1942:185 (Guam), corrected to *Pison esakii* by Krombein, 1949b:401.

Pison esakii Yasumatsu, 1937b:129, ♀. Holotype: ♀, Mariana Islands: Island of Rora (Entomological Laboratory, Kyushu University). – Yasumatsu, 1939b:83 (in key to *Pison* of eastern Asia, in checklist of *Pison* of Japanese Empire), Krombein, 1949b:384 (in key to Sphecidae of Micronesia), 401 (diagnostic characters; Mariana Islands); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands), 139 (bibliographic references; Mariana Islands); Tsuneki, 1968c:21 (Mariana Islands, description of ♂); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae).

56. *eu* Menke

Pison eu Menke, 1988a:46, ♀, ♂. Holotype: ♀, Colombia: Narino: Barbacoas (BMNH). Paratypes: southern Mexico to southern Peru, eastwards to Surinam. – Menke, 1992a:9 (Costa Rica), 1993d:11 (Costa Rica), 1993h:7 (first record from Panama); Hanson and

Menke, 1995:639 (known from Costa Rica); Cambra and Santos, 2000:53 (Panama: Parque Nacional Coiba in Isla de Coiba, Pacific Ocean); Amarante, 2002:47 (in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:12 (in checklist of Crabronidae of Peru).

57. *euryops* Menke

Pison euryops Menke, 1988a:47, ♀, ♂. Holotype: ♀, Brazil: Santa Catarina: Nova Teutonia (MCZ). – Amarante, 1993:19 (northeastern Brazil), 2002:47 (in catalog of Neotropical Crabronidae).

58. *exclusum* R. Turner

Pison exclusum R. Turner, 1916a:127, ♂. Holotype or syntypes: ♂, Australia: Queensland: Brisbane (BMNH). – R. Turner, 1916g:596 (in key to Australian *Pison*), 601 (diagnostic characters; Australia: Victoria: Horsham); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:259 (in catalog of Australian Sphecidae).

59. *exornatum* R. Turner

Pison exornatum R. Turner, 1916g:614, ♀. Holotype or syntypes: ♀, Australia: Queensland: Mackay (BMNH). – R. Turner, 1916g:599 (in key to Australian *Pison*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:259 (in catalog of Australian Sphecidae).

60. *exultans* R. Turner

Pison exultans R. Turner, 1916g:615, ♂. Holotype or syntypes: Australia: Victoria: no specific locality (BMNH). – R. Turner, 1916g:599 (in key to Australian *Pison*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:259 (in catalog of Australian Sphecidae).

61. *eyvae* Menke

Pison eyvae Menke, 1988a:27, ♀. Holotype: ♀, Ecuador: Morona-Santiago: Macas (M. Cooper coll.). Paratypes: Colombia, Bolivia. – Menke, 1992b:10 (Colombia); Amarante, 2002:47 (in catalog of Neotropical Crabronidae).

62. *fasciatum* (Radoszkowski)

Pseudonysson fasciatum Radoszkowski, 1876a:105, ♂ (as *fasciatus*, incorrect original termination). Holotype or syntypes: ♂: south-eastern Caucasus: no specific locality (Kraków). – Radoszkowski, 1892:592 (male genitalia). – **As *Pison fasciatum***: Kohl, 1893b:546 (new combination, redescription); Dalla Torre, 1897:711 (in catalog of world Hymenoptera, as new combination by Kohl); R. Turner, 1916g:595 (in key to *Pison* of India), 620 (bibliographic reference, diagnostic characters, as *fasciatus*); Gussakovskij, 1937:631 (in revision of Palearctic *Pison*); de Beaumont, 1947b:396 (Cyprus); Pittioni, 1950:27 (Cyprus); Georghiou, 1977:191 (Cyprus); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Kazenas, 1978b:145 (in key to Sphecidae of Kazakhstan and Central Asia); Antropov, 1989a:57 (synonymy, locality records); Pagliano, 1990:109 (in catalog of Italian Sphecidae); Negrisolo *in* Minelli, Ruffo, and La Posta, 1995b:10 (occurrence in Italy requires confirmation); Antropov *in* Bitsch et al., 2001:356 (synonymy with *Pison sericeum* incorrect); Kazenas, 2001b:34 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:84 (geographic distribution, collecting localities in Kazakhstan); Shkuratov, 2002b:141 (Russia: Rostov Oblast': Rostovskiy Nature Reserve at 46°27'N 42°41'E); Pagliano and Negrisolo, 2005:413 (in Sphecid Fauna of Italy); Ljubomirov and Yildirim, 2008:237 (in catalog of Crabronidae of Turkey); Antropov, 2017b:244 (in catalog of Crabroninae of Russia); Yildirim, Ljubomirov, and Lelej, 2014:13 (distribution in Turkey by biogeographic provinces); Koçak and Kemal, 2015:150 (in checklist of Hymenoptera of Turkey).

Pison suspicax Kokujev, 1912:6, ♂. Holotype: ♂, Azerbaijan: Yelizavetpol' Government, now Kirovabad Oblast': Aresh District (depository?). Synonymized with *Pison fasciatum* by Gussakovskij, 1937:631. – R. Turner, 1916g:620 (diagnostic characters); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Kazenas, 2001b:34 (in checklist of Sphecidae of Kazakhstan and Central Asia).

63. *fenestratum* F. Smith

Pison nitidum F. Smith, 1868b:248, ♀ (as *nitidus*, incorrect original termination), junior primary homonym of *Pison nitidum* F. Smith, 1859. Holotype or syntypes: ♀, Australia: Western Australia: Champion Bay, now Geraldton (BMNH). – Maindron, 1879:180 (nesting habits, redescription of species).

Pison fenestratum F. Smith, 1869a:291 (as *fenestratus*, incorrect original termination). Substitute name for *Pison nitidum* F. Smith, 1868. – Kohl, 1885a:187 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:711 (in catalog of world Hymenoptera, as *fenestratus*); R. Turner, 1916g:596 (in key to Australian *Pison*), 603 (comparison with *Pison festivum*, as *fenestratus*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:259 (in catalog of Australian Sphecidae).

64. *festivum* F. Smith

Pison festivum F. Smith, 1869a:296, ♀ (as *festivus*, incorrect original termination). Holotype or syntypes: ♀, Australia: Western Australia: Champion Bay, now Geraldton (BMNH). – Kohl, 1885a:187 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:711 (in catalog of world Hymenoptera); R. Turner, 1916g:596 (in key to Australian *Pison*), 603 (diagnostic characters); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:259 (in catalog of Australian Sphecidae).

65. *fraterculus* R. Turner

Pison fraterculus R. Turner, 1916g:610, ♀, ♂. Syntypes: Australia: Queensland: Mackay (BMNH). – R. Turner, 1916g:598 (in key to Australian *Pison*). – R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:259 (in catalog of Australian Sphecidae).

66. *fritzi* Menke

Pison fritzi Menke, 1988a:31, ♀, ♂. Holotype: ♀, Brazil: Santa Catarina: Nova Teutonia (USNM). Paratypes: Ecuador, nw. Argentina. – Dollfuss, 1989:11 (paratype in NHMW); Amarante, 2002:47 (in catalog of Neotropical Crabronidae).

67. *fuscipenne* F. Smith

Pison fuscipenne F. Smith, 1869a:294, ♀ (as *fuscipennis*, incorrect original termination). Holotype or syntypes: ♀, Australia: Western Australia: Champion Bay, now Geraldton (BMNH). – Kohl, 1885a:187 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:711 (in catalog of world Hymenoptera); R. Turner, 1916g:597 (in key to Australian *Pison*), 606 (recognition characters); nec Yasumatsu, 1937b:131 and 1939b:83 (= *Pison hospes*); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Cardale, 1985:259 (in catalog of Australian Sphecidae).

68. *glabrum* Kohl

Pison glabrum Kohl, 1908:309, ♀. Syntypes: ♀, Samoa: Upolu (NHMW). – R. Turner, 1916g:626 (diagnostic characters); Perkins and Cheesman, 1928:6 (listed from Samoa), 26 (Samoa, description of ♂); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands); R. Bohart and Menke, 1976:335 (in checklist of world Sphecidae); Dollfuss, 1989:11 (type material in NHMW); Naumann, 1990a:24 (Norfolk Island); Kami and Miller, 1998:57 (in checklist of Samoan insects); Smithers, 1998:46 (in list of insects of Norfolk Island).

69. *hahadzimaense* Tsuneki

Pison hahadzimaense Tsuneki, 1984a:5, ♀, ♂. Holotype: ♂, Ogasawara = Bonin Islands: Island of Hahadzima: Hyogidaira (originally K. Tsuneki coll., now Hyogo Mus.). – Tano, 1994a:5 (holotype in K. Tsuneki collection, as *hahadzimanse*); Hashimoto and Nakanishi, 1997:17 (holotype transferred to Hyogo Mus.); Terayama and Nambu, 2009:5, 23 (in key to Trypoxylini of Japan); Takahashi, 2010:19 (Japan: in list of Hymenoptera of Ogasawara = Bonin islands, as *hahadzimaensis*).

70. *hissaricum* Gussakovskij

Pison hissaricum Gussakovskij, 1940:84. Nomen nudum.

Pison hissaricum Gussakovskij, 1937:622, ♀. Holotype: ♀, Tajikistan: foothills of Hissar Mountains near Stalinabad, now Dushanbe (ZIN). – R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Kazenas, 1978b:145 (in key to Sphecidae of Kazakhstan and Central Asia); Menke, 1988a:38 (member of the *agile* group of *Pison*); Antropov, 1994b:125 (in revision of *agile* species group of *Pison*); Kazenas, 2001b:34 (in checklist of Sphecidae of Kazakhstan and Central Asia).

71. *hospes* F. Smith

Pison hospes F. Smith, 1879a:676, ♀, ♂. Syntypes: Hawaiian Islands: Oahu, Kauai, and Maui: no specific locality (BMNH). – Blackburn and Kirby, 1880:88 (Hawaiian Islands); Kohl, 1885a:187 (in checklist of world *Pison*); Blackburn and Cameron, 1886:233

(Hawaiian Islands: Kauai, Maui, and Oahu); Dalla Torre, 1897:711 (in catalog of world Hymenoptera); R. Perkins *in* R. Perkins and Forel, 1899:14 (Hawaiian Islands, Fiji); R. Turner, 1916g:628 (bibliographic references, distribution); Bridwell, 1919b:123 (in key to Hawaiian *Pison*); Giffard, 1919:181 (American Samoa and Hawaii); Cheesman, 1928a:175 (Marquesas and Society Islands); F. Williams, 1927:438 (nesting sites in Hawaii); Perkins and Cheesman, 1928:6 (listed from Samoa), 27 (Samoa); Swezey and Bryan, 1929:296 (Hawaii: Molokai Island); F. Williams, 1932:151 (Marquesas Islands); Krauss, 1944:93 (Hawaii: Island of Molokai); F. Williams, 1947:318 and 331 (Fiji); Krombein, 1949b:385 (in key to Sphecidae of Micronesia), 404 (synonymy, Marshall and Caroline, now Palau Islands); Gibson-Hill, 1950:160 (Cocos Islands); Krombein, 1950b:139 (Micronesia: Bikini); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands), 139 (bibliographic references; locality records from Micronesia); Fullaway, 1957:279 (in checklist of Hymenoptera of Fiji); Yoshimoto, 1960:334 (Hawaiian Islands); Krauss, 1961:417 (Cook Islands: Island of Aitutaki); Hinckley, 1969:15 (Tokelau Islands); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); A. Walker and Deitz, 1979:80 (recorded from Cook Islands); Tsuneki, 1982a:37 (Bismarck Archipelago), 1983a:95 (Philippines; redescription), 102 (in key to *Pison* of Philippines), 1983c:42 (in key to *Pison* of New Guinea), 43 (New Guinea); Kami and Miller, 1998:57 (in checklist of Samoan insects); Evenhuis, 2007:6 (in checklist of Hymenoptera of Fiji).

Pison hospes F. Smith, 1879b:139, ♀, ♂. Objective synonym of *Pison hospes* F. Smith, 1879a.

As *Pison fuscipenne* (corrected to *Pison hospes* by Krombein, 1949b:404): Yasumatsu, 1937b:131 (Caroline Islands: Palau Islands; redescription, description of ♀), 1939:83 (in key to eastern Asian *Pison*, in checklist of *Pison* of Japanese Empire).

Pison palauense Yasumatsu, 1937:133. Nomen nudum used in description of *Pison korrorense*. Synonymized with *Pison hospes* by Krombein, 1949b:404.

72. *humile* Arnold

Pison humile Arnold, 1945:5, ♀, ♂. Syntypes: Madagascar: Bekily (MNHN). – Leclercq, 1960a:99 (Madagascar); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Pulawski, 2003b:797 (in checklist of Malagasy Sphecidae); Madl, 2014a:977 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

73. *huonense* Tsuneki

Pison huonense Tsuneki, 1983c:48. ♀. Holotype: ♀, Papua New Guinea: Huon Golf: Satterberg (TMB). – Tsuneki, 1983c:42 (in key to *Pison* of New Guinea).

74. *icarioides* R. Turner

Pison icarioides Turner, 1908:521, ♀. Holotype or syntypes: ♀, Australia: Queensland: Mackay (BMNH). – R. Turner, 1916g:595 (in key to Australian *Pison*), 599 (subgeneric placement, recognition characters); Menke, 1968a:3 (has a semipetiolate gaster); R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae); Cardale, 1985:263 (in catalog of Australian Sphecidae); Naumann, 1993:184 (Australia: Queensland: Heathlands area in Cape York).

75. *ignavum* R. Turner

Pison ignavum R. Turner, 1908:511, ♀, ♂. Syntypes: Australia: Queensland: Cairns and Mackay; Victoria: Melbourne (BMNH). – R. Turner, 1910a:355 (as synonym of *Pison argentatum*), 1916g:596 (in key to Australian *Pison*), 601 (as Australian ssp. of *argentatum*; Fiji), 1919a:338 (Fiji, Queensland); F. Williams, 1932a:152 (Marquesas Islands), 1945:440 (New Caledonia, recognition characters), 1947:318 and 330 (Fiji); Krombein, 1949b:385 (in key to Sphecidae of Micronesia), 404 (Caroline Islands); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands), 140 (bibliographic references, geographic distribution); Fullaway, 1957:279 (in checklist of Hymenoptera of Fiji); Tsuneki, 1967d:21 (Taiwan), 1971g:19 (Taiwan); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Tsuneki, 1976b:95 (Philippines); Evans, Matthews, and Hook, 1981:222 (nest structure); Tsuneki, 1982a:36 (Bismarck Archipelago), 1983a:89 (Philippines), 102 (in key to *Pison* of Philippines), 1983c:42 (in key to *Pison* of New Guinea), 45 (New Guinea); Cardale, 1985:260 (in catalog of Australian Sphecidae); Radović, 1985:65 (sting apparatus analyzed); Callan, 1990:20 (New Caledonia: no specific locality); Porter, Stange, and Wang, 1999:9 (in checklist of Sphecidae of Taiwan); Jennings, Krogmann, and Burwell, 2013:32 (in checklist of Hymenoptera of New Caledonia). – **As *Pison argentatum ignavum*:** Cheesman, 1928a:177 (Marquesas and Society Islands); Perkins and Cheesman, 1928:6 (listed from Samoa), 28 (Samoa); Kami and Miller, 1998:57 (in checklist of Samoan insects); Evenhuis, 2007:6 (in checklist of Hymenoptera of Fiji).

76. *impunctatum* R. Turner

Pison impunctatum R. Turner, 1912a:200, ♀. Holotype by monotypy: ♀, Indonesia: Western Papua (= Indonesian New Guinea): Mimika River (BMNH). – R. Turner in R. Turner, Meade-Waldo, and Morley, 1915:6 (New Guinea: Mimika River; redescription); R. Turner, 1916g:626 (recognition characters, New Guinea); Cheesman, 1928a:176 (Marquesas and Society Islands, description of ♂); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands), R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Tsuneki, 1983c:42 (in key to *Pison* of New Guinea).

77. *inaequale* R. Turner

Pison inaequale R. Turner, 1916g:623, ♂. Holotype or syntypes: ♂, Malawi: Mlanje (BMNH). – R. Turner, 1916g:594 (in key to Afrotropical *Pison*), Arnold, 1924:5 (original description copied), 1930:9 (in checklist of Afrotropical Sphecidae); Leclercq, 1965a:72 (in key to Afrotropical *Pison*), 75 (bibliographic references); Menke, 1968a:3 (some specimens have only two submarginal cells); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Rodgers and Homewood, 1982:233 (Tanzania: Usambara Mountains, determination tentative).

78. *inconspicuum* R. Turner

Pison inconspicuum R. Turner, 1916g:612, ♂. Holotype or syntypes: Western Australia: Mundaring Weir (BMNH). – R. Turner, 1916g:598 (in key to Australian *Pison*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:260 (in catalog of Australian Sphecidae).

79. *infumatum* R. Turner

Pison infumatum R. Turner, 1908:510, ♀. Holotype or syntypes: ♀, Australia: Northern Territory: Darwin (BMNH). – R. Turner, 1916g:597 (in key to Australian *Pison*), 605 (recognition character); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:260 (in catalog of Australian Sphecidae).

80. *insigne* Sickmann

Pison insigne Sickmann, 1894:210, ♂. Syntypes: China: Chu-Yung-guan in Nankou Pass (Münster). – Dalla Torre, 1897:711 (in catalog of world Hymenoptera); R. Turner, 1916g:621 (comparison with *Pison regale*); Gussakovskij, 1932:10 (Russia: Primorskiy Kray), 1937:625 (in revision of Palearctic *Pison*; in Russia: Primorskiy Kray), 1938:5 (China: Kiangsu Province); Yasumatsu, 1938e:345 (China: Changsha in Yangtze Basin), 1939b:82, 83 (in key to *Pison* of eastern Asia, in checklist of *Pison* of Japanese Empire), 1942c:113 (China: Beijing); Tsuneki, 1964g:49 (Korea: Shoyozan), 1971m:12 (China: Beijing, as Peking; description of ♀); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Tsuneki, 1976:297 (China: Heilungkiang: Maoershan 100 km E Harbin), 1982b:16 (known from Korea); Antropov, 1985b:40 (nesting habits, larva); Paik, 1985:199 (in list of Sphecidae of Korea); Antropov, 1990:20 (nest guarding male, parasites); Antropov in Nemkov, Kazenas, Budrys, et Antropov, 1995:415 (in key to Sphecidae of Russian Far East); Wu and Zhou, 1996a:100 (in Economic Insect Fauna of China); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Nemkov, 2008b:20 (in catalog of Crabronidae of Asiatic Russia), 2009b:83 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia); Terayama and Nambu, 2009:2, 23 (in key to Trypoxylini of Japan); T. Li, and Q. Li, 2011:62 (in key to *Pison* of China); Nemkov, 2012c:439 (in catalog of Crabronidae of Russian Far East); J.-K. Kim, 2014:437 (in catalog of Sphecidae s.l. of Korean Peninsula); Antropov, 2017b:244 (in catalog of Crabroninae of Russia).

81. *insulare* F. Smith

Pison insulare F. Smith, 1869a:297, ♀ (as *insularis*, incorrect original termination). Holotype or syntypes: ♀, New Hebrides, now Vanuatu: no specific locality (BMNH). – Kohl, 1885a:187 (in checklist of world *Pison*); Dalla Torre, 1897:711 (in catalog of world Hymenoptera); R. Turner, 1908:510 (comparison with *Pison priscum*), 1916g:626 (diagnostic characters); Cheesman, 1937:203 (additional description; Vanuatu); nec F. Williams, 1945:442 (= *Pison novocaledonicum*); Krombein, 1949a:361 (diagnostic characters; New Hebrides, now Vanuatu, Hawaii); Weber, 1949:332 (Hawaiian Islands: Oahu: Kawaiiki trail); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands); Yoshimoto, 1960:334 (Hawaiian Islands); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Menke, 1979a:303 (Tahiti); Villemant, 2011:133 (Vanuatu: island of Espiritu Santo: Luganville and Panaoru). As *Pison* sp.: Weber, 1948:222 (Hawaii: Oahu), corrected to *Pison insulare* by Krombein, 1949a:361.

82. *iridipenne* F. Smith

Pison iridipenne F. Smith, 1879a:676, ♀, ♂ (as *iridipennis*, incorrect original termination). Syntypes: Hawaiian Islands: Honolulu (BMNH). – Blackburn and Kirby, 1880:88 (Hawaiian Islands); Kohl, 1885a:187 (in checklist of world *Pison*); Blackburn and Cameron, 1886:173 (Hawaiian Islands: Honolulu); Dalla Torre, 1897:711 (in catalog of world Hymenoptera); R. Perkins in R. Perkins and Forel, 1899:14 (Hawaiian Islands: Honolulu), 1901:264 (Hawaiian Islands); nec R. Turner, 1908:512 (= *Pison westwoodi*); R. Turner, 1916g:626 (bibliographic references); Bridwell, 1919b:123 (in key to Hawaiian *Pison*); Giffard, 1919:181 (American Samoa and Hawaii); F. Williams, 1927:438 (common about Honolulu); Cheesman, 1928a:176 (Marquesas and Society Islands); Perkins and Cheesman, 1928:6 (listed from Samoa), 28 (Samoa, recognition characters); F. Williams, 1932 (Marquesas Islands); Krauss, 1944:93 (Hawaii: Molokai Island); F. Williams, 1947:318 and 331 (not known from Fiji); Krombein, 1949b:386 (in key to Sphecidae of Micronesia), 408 (geographic variation; Marshall, Mariana, and Caroline Islands), 1950b:139 (additional Micronesian localities); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands), 141 (bibliographic references; Micronesia); Fullaway, 1957:279 (in checklist of Hymenoptera of Fiji); Yoshimoto, 1960:334 (in list of Hawaiians Sphecidae); Baltazar, 1966:335 (in catalog of Hymenoptera of Philippines); Hinckley, 1969:15 (Tokelau Islands); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Tsuneki, 1976b:94 (Philippines; additional description); Menke, 1979a:303 (Tahiti); Tsuneki, 1982a:38 (Bismarck Archipelago, redescription), 1983c:42 (in key to *Pison* of New Guinea), 43 (New Guinea); Cardale, 1985:260 (in catalog of Australian Sphecidae); Menke, 1990a:154 (*doggonum* may be a junior synonym); Evenhuis, 2007:6 (in checklist of Hymenoptera of Fiji).

Pison iridipenne F. Smith, 1879b:139, ♀, ♂ (as *iridipennis*, incorrect original termination). Objective synonym of *Pison iridipenne* F. Smith, 1879a.

83. *irramulus* T. Li and Q. Li

Pison irramulus T. Li and Q. Li, 2011:62, ♀, ♂. Holotype: ♀, China: Yunnan: Yingjiang County: Taiping Town: Yunyan Mountain (Yunnan Agricultural University). – T. Li, and Q. Li, 2011:62 (in key to *Pison* of China).

84. *isolatum* R. Turner

Pison isolatum R. Turner, 1911b:372, ♀, ♂. Syntypes: Seychelles: Islands of Silhouette and Mahé (BMNH). – R. Turner, 1916g:594 (in key to Afrotropical *Pison*), 618 (recognition characters); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Madl, 2014a:977 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

85. *kohlii* Bingham

Pison kohlii Bingham, 1897:220, ♀. Holotype or syntypes: ♀, Burma: Tenasserim (BMNH). – R. Turner, 1916:595 (in key to *Pison* of India), 624 (recognition characters); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Tsuneki, 1983a:87 (Philippines; additional description, description of ♂), 102 (in key to *Pison* of Philippines).

Pison aureopilosus Cameron, 1909:73, ♀. Holotype: ♀, Malaysia: Sarawak (in Borneo): Sadong (BMNH). Synonymized with *Pison kohlii* by R. Turner, 1916g:624.

86. *koreense* (Radoszkowski)

Paraceramius koreensis Radoszkowski, 1887c:433, ♀ (as *Koreensis*, incorrect original capitalization). Holotype: ♀, Korea: no specific locality (Kraków, now lost). Neotype: ♀, Russia: Primorskiy Krai: 32 km SE Ussuriysk (ZMMU), designated by Antropov, 1994b:125. – Richards, 1962:118 (*Paraceramius* Radoszkowski, 1887 is a junior homonym of *Paraceramius* de Saussure, 1854; *Krombeiniellum* proposed as substitute name). – **As *Ceramius koreensis***: Dalla Torre, 1894:3 (new combination, in catalog of world Hymenoptera, listed in Vespidae). – **As *Pison koreensis***: Kohl in Dalla Torre, 1897:712 (new combination, in catalog of world Hymenoptera); R. Turner, 1916g:617 (bibliographic reference, original description is insufficient); Yasumatsu, 1935e:229 (in revision of Japanese *Pison*; Japan: Honshu: Kyoto); Yasumatsu, 1939b:82 (in key to *Pison* of eastern Asia), 83 (in checklist of *Pison* of Japanese Empire); Iwata, 1964:1 (nesting habits). – **As *Pison koreense***: Kohl in Dalla Torre, 1897:712 (new combination, in catalog of world Hymenoptera, listed in Crabroninae); Gussakovskij, 1937:622 (original description copied); Krombein, 1958d:166 (adventive in USA), 1958f:189 (in supplement to catalog of North American Hymenoptera: Virginia), 1963f:273 (Maryland: Plimmers Island near Washington, D.C.); Tsuneki, 1964g:48, 49 (in key to Trypoxylini of Japan), 1964j:43 (Japan: Mount Haku); Krombein, 1967:394 (Maryland, Michigan); Menke, 1968a:3 (member of subgenus *Krombeiniellum*, now *agile* species group), 7 (in checklist of New World *Pison*), 1968c:1101 (diagnostic characters), 1102 (in key to New World *Pison*); Sheldon,

1968:107 (nesting habits); Tsuneki, 1969i:59 (Japan: Fukui Prefecture: Taichôdzi temple; bibliographic references); Haneda, 1971a:19 (Japan: Fukui Prefecture); Yamada, 1971:35 (Japan: Aichi Prefecture); Suda, 1972c:52 (Japan); Murota, 1973b:117 (Taiwan); Tsuneki, 1973f:44 (Taiwan); Hawkins, 1974:279 (Kansas: Lawrence); Nambu, 1975b:62 (Japan: Saitama Prefecture); R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae); Krombein, 1979:1642 (as new synonym of *Pison agile*); Kazenas, 1980e:92 (Russia: Primorskiy Krai); Tsuneki, 1982b:16 (known from Korea); Paik, 1985:199 (in list of Sphecidae of Korea); Antropov, 1994b:125 (in revision of *agile* species group of *Pison*); Antropov in Nemkov, Kazenas, Budrys, et Antropov, 1995:415 (in key to Sphecidae of Russian Far East); Buck, 2004:25 (Canada: in checklist of Crabronidae of Ontario), 30 (distribution within Ontario), 52 (first record from Canada: Ontario: list of localities); Haneda, Inoue, Nozaka, Tano, Kurokawa, and H. and T. Murota, 2005:65 (Japan: Fukui Prefecture: Mount Monju); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:47 (Japan: Gifu Prefecture); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Nemkov, 2006b:167 (Russia: Primorskiy Krai: Kedrovaya Pad' Nature Reserve), 2008b:20 (in catalog of Crabronidae of Asiatic Russia, as *koreensis*), 2009b:83 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2009c:237 (Russia: Primorskiy Krai: Lazovsky Nature Reserve, as *koreensis*); Terayama and Nambu, 2009:2, 13 (in key to Trypoxylini of Japan); T. Li, and Q. Li, 2011:62 (in key to *Pison* of China); Nemkov, 2012c:439 (in catalog of Crabronidae of Russian Far East); J.-K. Kim, 2014:438 (in catalog of Sphecidae s.l. of Korean Peninsula); Antropov, 2017b:244 (in catalog of Crabroninae of Russia).

As *Pison agile* (corrected to *Pison koreense* by Antropov, 1994b:125): Krombein, 1979b:1641 (in catalog of North American Hymenoptera); Menke, 1988a:38 (in revision of New World *Pison*; in USA: Illinois, Kansas, Maryland, Michigan, New York, Virginia); Kurczewski and Miller, 1991:254 (Pennsylvania: Erie County: Presque Isle State Park).

87. *korrorense* Yasumatsu

Pison korrorense Yasumatsu, 1937b:133, ♀, ♂. Holotype: ♀, Caroline Islands: Palau Islands: Island of Koror (Entomological Laboratory, Kyushu University). – Yasumatsu, 1939b:82, 83 (in key to *Pison* of eastern Asia, in checklist of *Pison* of Japanese Empire); Krombein, 1949b:385 (in key to Sphecidae of Micronesia), 409 (possibly a subspecies of *iridipenne*, Caroline Islands), 1950b:134 and 139 (illustrations of head, sternum III, and genitalia); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands), 141 (bibliographic references; Micronesia); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae; possibly synonym of *Pison iridipenne*).

88. *krombeini* Menke

Pison krombeini Menke, 1968c:1105, ♂. Holotype: ♂, Belize (as British Honduras): no specific locality (USNM). – R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae); Menke, 1988a:45 (in revision of New World *Pison*; southern Mexico to Colombia), 1992a:9 (Costa Rica), 1993d:11 (Costa Rica); Hanson and Menke, 1995:639 (known from Costa Rica); Amarante, 2002:47 (in catalog of Neotropical Crabronidae).

89. *laeve* F. Smith

Pison laeve F. Smith, 1856:317, ♀ (as *laevis*, incorrect original termination). Holotype: ♀ (but given as ♂ by Menke, 1988a:90), "Georgia": no specific locality (BMNH). – Cresson, 1862:238 (in catalog of North American Hymenoptera); F. Smith, 1869a:291 (in checklist of *Pison*); Patton, 1880b:386 (in checklist of North American Larrinae); Kohl, 1885a:187 (in checklist of world *Pison*); Cresson, 1887:276 (in catalog of North American Hymenoptera); W. Fox, 1894a:471 (in revision of North American Larrinae, original description copied); Dalla Torre, 1897:712 (in catalog of world Hymenoptera, as *leve*); Ashmead, 1899d:251 (in checklist of North American Crabronidae); Harrington, 1902:222 (Canada: Ontario: Ottawa, as *laevis*); R. Turner, 1916g:628 (bibliographic reference to original description); Krombein in Muesebeck et al., 1951:954 (in catalog of North American Hymenoptera); Krombein, 1958f:188 (in supplement to catalog of North American Hymenoptera: holotype is a male, not female); Menke, 1968a:7 (tentatively in checklist of New World species of subgenus *Pison*); R. Bohart and Menke, 1976:333 (in checklist of world Sphecidae, probably from New Georgia, Solomon Islands); Krombein, 1979:1641 (origin probably New Georgia, Solomon Islands); Menke, 1988a:90 (origin discussed, diagnostic characters, redescription).

90. *larsoni* Menke

Pison larsoni Menke, 1988a:29, ♀, ♂. Holotype: ♂, Bolivia: La Paz: San Jacinto (Kansas Univ.). Paratypes: Ecuador, Peru. – Amarante, 2002:47 (in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:12 (in checklist of Crabronidae of Peru).

91. *lillo* Menke

Pison lillo Menke, 1988a:49, ♂. Holotype: ♂, Argentina: Tucumán: Tacanas (Instituto Miguel Lillo). – Amarante, 2002:47 (in catalog of Neotropical Crabronidae).

92. *liupanshanense* T. Li and Q. Li

Pison liupanshanense T. Li and Q. Li, 2011:65, ♀, ♂. Holotype: ♀, China: Ningxia: Guyuan City: Liupanshan (Yunnan Agricultural University). – T. Li, and Q. Li, 2011:62 (in key to *Pison* of China).

93. *lobiferum* Arnold

Pison lobiferum Arnold, 1945:6, ♀. Syntypes: Madagascar: Bekily (MNHN). – R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Pulawski, 2003b:797 (in checklist of Malagasy Sphecidae); Madl, 2014a:977 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

94. *lutescens* R. Turner

Pison lutescens R. Turner, 1916g:604, ♀. Holotype or syntypes: ♀, Western Australia: Mundaring Weir (BMNH). – R. Turner, 1916g:597 (in key to Australian *Pison*), Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:260 (in catalog of Australian Sphecidae).

95. *maculipenne* F. Smith

Pison maculipenne F. Smith, 1860c:80, ♀ (as *maculipennis*, incorrect original termination). Holotype or syntypes: ♀, Brazil: Ega, now Tefé (BMNH). – F. Smith, 1869a:291 (in checklist of *Pison*); Kohl, 1885a:187 (in checklist of world *Pison*); Dalla Torre, 1897:712 (in catalog of world Hymenoptera); R. Turner, 1916g:628 (bibliographic reference to original description); Menke, 1968a:7 (in checklist of New World species of subgenus *Pison*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Menke, 1988a:59 (in revision of New World *Pison*; Costa Rica to Bolivia, eastwards to Trinidad, southward to southern Brazil); Callan, 1991a:8 (Trinidad); Menke, 1992a:9 (Costa Rica; identity and variation of ♂), 1992b:10 (Panama); Hanson and Menke, 1995:639 (known from Costa Rica); Amarante, 2002:47 (in catalog of Neotropical Crabronidae); Starr and Hook, 2003:19 (in catalog of Aculeata of Trinidad, West Indies); Rasmussen and Asenjo, 2009:12 (in checklist of Crabronidae of Peru).

96. *maculipenne* F. Smith (preoccupied)

Pison maculipenne F. Smith, 1873c:295, ♀ (as *maculipennis*, incorrect original termination), junior primary homonym of *Pison maculipenne* F. Smith, 1860. Syntypes: Brazil: Amazonas: Ega, now Tefé; and Pará (BMNH). – Not listed by Bohart and Menke, 1976 or Menke, 1988a.

97. *marginatum* F. Smith

Pison marginatum F. Smith, 1856:314, ♀ (as *marginatus*, incorrect original termination). Holotype or syntypes: ♀, Australia: New South Wales: Hunter River (BMNH). – F. Smith, 1869a:290 (in checklist of *Pison*, as *marginatus*); Kohl, 1885a:187 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:712 (in catalog of world Hymenoptera); R. Turner, 1916g:598 (in key to Australian *Pison*), 609 (recognition characters; Australia: Melbourne, Mackay, as *marginatus*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Evans, Matthews, and Hook, 1981:225 (nesting habits); Cardale, 1985:260 (in catalog of Australian Sphecidae); Naumann, 1990a:25 (Norfolk and Philip Islands); Smithers, 1998:46 (in list of insects of Norfolk Island).

98. *mariannense* Yasumatsu

Pison mariannense Yasumatsu, 1953:141, ♂, ♀. Holotype: ♂, Mariana Islands: Island of Rota: Tetêcho-Tatâcho-Soñgsoñg (Entomological Laboratory, Kyushu University). – Yasumatsu, 1953: 134 (in list of *Pison* of Pacific islands); Tsuneki, 1968c:22 (Marianas, as *marianense*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

99. *martini* Menke

Pison martini Menke, 1988a:58, ♀. Holotype: ♀, Ecuador: Morona-Santiago: Macas (BMNH). – Amarante, 2002:47 (in catalog of Neotropical Crabronidae).

100. *melanocephalum* R. Turner

Pison melanocephalum R. Turner, 1908:515, ♀. Holotype or syntypes: ♀, Australia: Queensland: Cairns (BMNH). – R. Turner, 1916g:596 (in key to Australian *Pison*), 601 (recognition characters); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:260 (in catalog of Australian Sphecidae).

101. *meridionale* R. Turner

Pison meridionale R. Turner, 1916g:611, ♂. Holotype or syntypes: ♂, South Australia: Adelaide (BMNH). – R. Turner, 1916g:598 (in key to Australian *Pison*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:260 (in catalog of Australian Sphecidae).

102. *mimicum* Arnold

Pison mimicum Arnold, 1945:4, ♂. Holotype: ♂, Madagascar: Perinet (MNHN). – R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae; misspelled *minicum*); Madl, 1997:820 (Madagascar: Island of Nosy Boraha, as *mimicus*), 821 (in checklist of Nosy Boraha Sphecidae, as *mimicus*); Pulawski, 2003b:797 (in checklist of Malagasy Sphecidae); Madl, 2014a:978 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

103. *morosum* F. Smith

Pison morosum F. Smith, 1856:317, ♀ (as *morosus*, incorrect original termination, referring to White and Butler MS). Holotype or syntypes: New Zealand: no specific locality (BMNH). – F. Smith, 1869a:291 (in checklist of *Pison*); Hutton, 1881:103 (in catalog of New Zealand Hymenoptera); W.F. Kirby, 1881a:40 (in checklist of New Zealand Hymenoptera), 1884b:69 (in checklist of New Zealand Hymenoptera); Kohl, 1885a:187 (in checklist of world *Pison*); Cameron, 1898a:46 (New Zealand: Greymouth); Dalla Torre, 1897:712 (in catalog of world Hymenoptera); Hutton, 1898:158 (Chatham Island, as *morosus*); Cameron, 1901e:220 (known from New Zealand); Hutton, 1904:98 (in list of New Zealand fauna); R. Turner, 1916g:627 (diagnostic characters); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Callan, 1979:36 (New Zealand; available information reviewed); Laing, 1988:37 (prey, hunting); Macfarlane and Palma, 1988:423 (nest parasite: *Melittobia australica* Girault, a eulophid); Valentine and Walker, 1991:40 (in catalog of New Zealand Hymenoptera); Harris, 1994:31 (in Fauna of New Zealand, nesting habits).

Pison tuberculatum F. Smith, 1869a:296, ♂ (as *tuberculatus*, incorrect original termination). Holotype or syntypes: ♂, New Zealand: no specific locality (BMNH). Synonymized with *Pison morosum* by Harris, 1994:31. – W.F. Kirby, 1881a:40 (in checklist of New Zealand Hymenoptera), 1884b:69 (in checklist of New Zealand Hymenoptera); Kohl, 1885a:188 (in checklist of world *Pison*); Dalla Torre, 1897:713 (in catalog of world Hymenoptera); Hutton, 1904:98 (in list of New Zealand fauna); Alfken, 1904a:620 (New Zealand: Chatham Island); R. Turner, 1916g:626 (diagnostic characters); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Callan, 1979:36 (New Zealand); Valentine and Walker, 1991:40 (in catalog of New Zealand Hymenoptera).

104. *multistrigatum* R. Turner

Pison multistrigatum R. Turner, 1917a:109, ♀. Holotype or syntypes: ♀, Malawi: Mlanje (BMNH). – Arnold, 1924:8 (original description copied), 1930:9 (in checklist of Afrotropical Sphecidae); Leclercq, 1965a:72 (in key to Afrotropical *Pison*), 75 (bibliographic references); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

105. *neotropicum* Menke

Pison neotropicum Menke, 1968c:1106, ♀. Holotype: ♀, Brazil: Rio de Janeiro (USNM). – R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae); Menke, 1988a:46 (in revision of New World *Pison*; southeastern Brazil); Amarante, 2002:47 (in catalog of Neotropical Crabronidae).

106. *nigellum* Krombein

Pison nigellum Krombein, 1949b:401, ♀, ♂. Holotype: ♀, Caroline Islands: Ponape: Kolonia (USNM). – Krombein, 1949b:384 (in key to Sphecidae of Micronesia), 1950b:139 (nesting in cliffs); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands), 144 (bibliographic references; Caroline Islands); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Gess, 1981:70 (nesting in pre-existing cavities reported).

107. *ningyuenfuense* Antropov

Pison ningyuenfuense Antropov, 1994b:128, ♀. Holotype: ♀, China: Hunan: Ningyuenfu (USNM). – T. Li and Q. Li, 2011:62 (in key to *Pison* of China).

108. *nitidum* F. Smith

Pison nitidum F. Smith, 1859a:160, ♀ (as *nitidus*, incorrect original termination). Syntypes: ♀, Indonesia: Maluku: Aru and Key (now Kai) Islands (OXUM). – F. Smith, 1863a:35 (Indonesia), 1863b:135 (known from Misool, Key, and Aru), 1869a:291 (in checklist of *Pison*, as *nitidus*), 1871a:366 (in catalog of Oriental Aculeata); Maindron, 1879:181 (Indonesia: Maluku: Island of Ternate, as *nitidus*); Kohl, 1885a:187 (in checklist of world *Pison*); Dalla Torre, 1897:712 (in catalog of world Hymenoptera); Cameron, 1905k:62 (Java, as *nitidus*); Rudow, 1912:46 (nest structure); R. Turner, 1916g:627 (Indonesia: Aru, Ké islands, as *nitidus*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

109. *noctulum* R. Turner

Pison noctulum R. Turner, 1908:516, ♀. Holotype or syntypes: ♀, Australia: Queensland: Mackay (BMNH). – R. Turner, 1916g:596 (in key to Australian *Pison*), 600 (recognition characters; Australia: Queensland: Kuranda); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:261 (in catalog of Australian Sphecidae).

110. *nogorombu* Pulawski

Pison sp.: Menke, 1988a:4 (photograph of mandible) and 6 (mandible with step on posterior margin).

Pison nogorombu: Antropov and Pulawski, 1989:318 (nomen nudum).

Pison nogorombu Pulawski, 1989b:468, ♀, ♂. Holotype: Papua New Guinea: Madang Province: Bundi (CAS).

111. *nosferatu* Menke

Pison nosferatu Menke, 1988a:32, ♀. Holotype: ♀, Venezuela: Arauca: Rancho Grande (USNM). – Amarante, 2002:47 (in catalog of Neotropical Crabronidae).

112. *novabritanicae* Tsuneki

Pison novabritanicae Tsuneki, 1982a:40, ♀. Holotype: ♀, Papua New Guinea: Bismarck Archipelago: New Britain: Yalom (ZMUC).

113. *novaguineanum* Tsuneki

Pison novaguineanum Tsuneki, 1983c:49, ♀. Holotype: ♀, Papua New Guinea: no specific locality (TMB). – Tsuneki, 1983c:42 (in key to *Pison* of New Guinea).

114. *novocaledonicum* Krombein

As *Pison insulare*: F. Williams, 1945:442 (New Caledonia), corrected to *Pison novocaledonicum* by Krombein, 1949a:362.

Pison novocaledonicum Krombein, 1949a:362, ♀, ♂ (as *novocaledonica*, incorrect original termination). Holotype: ♀, New Caledonia: St. Louis (USNM). – Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Callan, 1990:20 (New Caledonia: no specific locality); Jennings, Krogmann, and Burwell, 2013:32 (in checklist of Hymenoptera of New Caledonia).

115. *nozakae* Tsuneki

Pison nozakae Tsuneki, 1983a:99, ♂, ♀. Holotype: ♂, Philippines: Mindanao: Davac (originally K. Tsuneki coll., now ?). – Tsuneki, 1983a:102 (in key to *Pison* of Philippines); Nuhn and Menke, 1994:27 (holotype not transferred to USNM, possibly returned to C. Nozaka, the collector); Menke, 1995:14 (type still in K. Tsuneki collection); Tano, 1995:45 (holotype in K. Tsuneki collection).

116. *oakleyi* Krombein

As *Pison* sp.: Fullaway, 1913:283 (Guam) and Swezey, 1942:185 (Guam), corrected to *Pison oakleyi* by Krombein, 1949b:406.

Pison oakleyi Krombein, 1949b:406, ♀, ♂. Holotype: ♂, Guam: Point Ritidian (USNM). – Krombein, 1949b:385 (in key to Sphecidae of Micronesia), 1950b:134 and 139 (illustrations of head, sternum III, and genitalia); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands), 144 (bibliographic references; Mariana Islands); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Terayama and Nambu, 2009:2, 23 (in key to Trypoxylini of Japan).

ssp. *boninense* Tsuneki

Pison oakleyi boninense Tsuneki, 1973a:19, ♀. Holotype: Japan: Bonin Islands: Island of Chichidzima (K. Haneda coll.). – Haneda, 1973:30 (Japan: Bonin Islands: Chichijimas Islands); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Tsuneki, 1984a:11 (known from Ogasawara = Bonin Islands); Takahashi, 2010:19 (Japan: in list of Hymenoptera of Ogasawara = Bonin islands).

ssp. *rotaense* Tsuneki

Pison oakleyi rotaense Tsuneki, 1968c:22, ♀, ♂. Holotype: ♂, Mariana Islands: Rota (Bishop Mus.). – R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

117. *obesum* Arnold

Pison obesum Arnold, 1958:127, ♀. Holotype or syntypes: ♀, Zimbabwe: Cashel (SAMC). – Leclercq, 1965a:72 (in key to Afrotropical *Pison*), 76 (Zaire: Kapanga: Lulua; description of ♂); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

118. *obliquum* F. Smith

Pison obliquum F. Smith, 1856:316, ♀ (as *obliquus*, incorrect original termination). Holotype or syntypes: ♀, Australia: Van Diemen's Land = Tasmania: no specific locality (OXUM). – F. Smith, 1869a:291 (in checklist of *Pison*); R. Turner, 1916g:604 (as tentative synonym of *Pison westwoodi*). – **As *Pison obliquum***: Kohl, 1885a:187 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:712 (in catalog of world Hymenoptera); R. Bohart and Menke, 1976:337 (as tentative synonym of *Pison westwoodi*); Cardale, 1985:263 (in catalog of Australian Sphecidae, as junior synonym of *Pison westwoodi*).

119. *obliteratum* F. Smith

Pison obliteratum F. Smith, 1858a:104, ♀ (as *obliteratus*, incorrect original termination). Holotype or syntypes: ♀, Malaysia: Sarawak: no specific locality (OXUM). – F. Smith, 1863b:135 (known from Singapore), 1871a:366 (in catalog of Oriental Aculeata); Kohl, 1885a:187 (listed); Cameron, 1889c:117 (in checklist of Oriental *Pison*); Bingham, 1897:222 (in revision of Indian and Pakistani aculeates); Dalla Torre, 1897:712 (in catalog of world Hymenoptera); R. Turner, 1916g:595 (in key to *Pison* of India), 616 (recognition characters); Pagden, 1934a:461 (Malay Peninsula; nest build of mud; prey: *Tetragnatha* sp., a tetragnathid spider); Iwata, 1964b:375 (nesting habits in Thailand); Menke, 1968a:3 (has a semipetiolate gaster); R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae; India, Malaysia, Indonesia); S. Gupta, 1995:86 (India: Uttar Pradesh). – **As *Parapison obliteratus***: F. Smith:1869a:299 (new combination, in checklist of *Parapison*).

120. *orientale* Cameron

Pison orientale Cameron, 1897c:23, sex not indicated. Holotype or syntypes: India: West Bengal: Barrackpore, now Barrakpur 20 km north of Calcutta (OXUM). – Rothney, 1903:104 (India: West Bengal: Barrackpore, now Barrakpur); Ramakrishna Aiyar, 1916:553 (in catalog of Indian aculeates described after Bingham, 1897); R. Turner, 1916g:595 (in key to *Pison* of India), 625 (bibliographic reference); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

121. *pallidipalpe* F. Smith

Pison pallidipalpe F. Smith, 1863:35, ♀ (as *pallidipalpis*, incorrect original termination). Holotype or syntypes: ♀, Indonesia: island of Seram: no specific locality (BMNH). – F. Smith, 1863b:135 (known from Seram), 1865a:85 (Indonesia: Moloku: Island of Morotai), 1869a:291 (in checklist of *Pison*), 1871a:366 (in catalog of Oriental Aculeata); Kohl, 1885a:187 (in checklist of world *Pison*); Dalla Torre, 1897:712 (in catalog of world Hymenoptera); Cameron, 1913b:82 (Indonesia: Western Papua: Moluccas: Island of Saonek); W. Schulz, 1905a:214 (Papua New Guinea: Finschhafen, redescription); R. Turner, 1916g:625 (diagnostic characters); Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

122. papuanum Schulz

Pison morosum F. Smith, 1865a:85, ♀ (as *morosus*, incorrect original termination), junior primary homonym of *Pison morosum* F. Smith, 1856. Holotype or syntypes: ♀, New Guinea: no specific locality (BMNH or OXUM).

Pison papuanum W. Schulz, 1905a:217. Substitute name for *Pison morosum* F. Smith, 1865. – R. Turner, 1917b:326 (valid name for *constrictum*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Tsuneki, 1983c:42 (in key to *Pison* of New Guinea).

Pison constrictum R. Turner, 1912:201, ♂. Holotype: ♂, Indonesia: Western Papua (= New Guinea): Mimika River (BMNH). Synonymized with *Pison papuanum* by R. Turner, 1917b:326. – R. Turner in R. Turner, Meade-Waldo, and Morley, 1915:7 (Western Papua: Mimika River; redescription); R. Turner, 1916:627 (almost certainly the male of *Pison morosus* F. Smith, 1865).

123. pasteelsi Leclercq

Pison pasteelsi Leclercq, 1965a:76, ♀. Holotype: ♀, Zaire: Kivu: Uvira (MRAC). – Leclercq, 1965a:69 (in key to Afrotropical *Pison*), 76 (comparison with *Pison testaceipes*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

124. peletieri Le Guillou

Pison peletieri Le Guillou, 1841:324, ♀ (as *Peletieri*, incorrect original capitalization). Holotype or syntypes: ♀, northern Australia: no specific locality (MNHN). – Kohl, 1885a:188 (in checklist of world *Pison*); Dalla Torre, 1897:712 (in catalog of world Hymenoptera); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:261 (in catalog of Australian Sphecidae).

Pison pelletieri Le Guillou, 1842:320, ♀ (as *Pelletieri*, incorrect original capitalization). Objective synonym of *Pison peletieri* Le Guillou, 1841. – Turner, 1916g:597 (in key to Australian *Pison*), 603 (original description copied, as *pelletieri*).

125. pentafasciatum Menke

Pison pentafasciatum Menke, 1988a:58, ♀. Holotype: ♀, Brazil: Santa Catarina: Cauna (UCD). – Amarante, 2002:47 (in catalog of Neotropical Crabronidae).

126. perplexum F. Smith

Pison perplexum F. Smith, 1856:314, ♂ (as *perplexus*, incorrect original termination). Holotype or syntypes: ♂, Australia: no specific locality (BMNH). – F. Smith, 1869a:290 (in checklist of *Pison*, as *perplexus*); Kohl, 1885a:188 (in checklist of world *Pison*); H. Roth, 1885:321 (nest structure, prey, as *perplexus*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:712 (in catalog of world Hymenoptera); Turner, 1910a:355 (description of ♀, as *perplexus*), 1916g:597 (in key to Australian *Pison*), 605 (relationship to *Pison fuscipenne*, as *perplexus*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:261 (in catalog of Australian Sphecidae).

127. pertinax R. Turner

Pison pertinax R. Turner, 1908:517, ♀. Syntypes: ♀, Australia: Queensland: Mackay (BMNH). – R. Turner, 1916g:595 (in key to Australian *Pison*), 599 (coloration; Australia: Cairns, Mackay, Brisbane); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:261 (in catalog of Australian Sphecidae).

128. petularum Leclercq

Pison petularum Leclercq, 1965a:76, ♂. Holotype: ♂, Zaire: Katanga: Elisabethville, now Lubumbashi (MRAC). – Leclercq, 1965a:70 (in key to Afrotropical *Pison*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

129. phthinylla Menke

Pison phthinylla Menke, 1988a:70, ♀. Holotype: ♀, Ecuador: Morona-Santiago: Cordillera de Cutucú 6 km E Macas (M. Cooper coll.). – Amarante, 2002:47 (in catalog of Neotropical Crabronidae).

130. pistillum Menke

Pison pistillum Menke, 1988a:91, ♀. Holotype: ♀, Papua New Guinea: Western Highland Province: Bayier River (AEI).

131. *plaumanni* Menke

Pison plaumanni Menke, 1968c:1105, ♀. Holotype: ♀, Brazil: Santa Catarina: Nova Teutonia (UCD). – R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae); Menke, 1988a:39 (in revision of New World *Pison*; eastern and southeastern Brazil); Amarante, 1993:19 (northeastern Brazil); Amarante, 2002:47 (in catalog of Neotropical Crabronidae).

132. *ponape* Krombein

Pison ponape Krombein, 1949b:405, ♀. Holotype: ♀, Caroline Islands: Island of Ponape: Kolonia (USNM). – Krombein, 1949b:385 (in key to Sphecidae of Micronesia); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands), 144 (bibliographic reference to original description, description of ♂; Caroline Islands); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

133. *pregustum* Leclercq

Pison pregustum Leclercq, 1965a:77, ♀. Holotype: ♀, Zaire: Uele: Bambesa (Inst. Roy. Sci. Nat. Belgique). – Leclercq, 1965a:71 (in key to Afrotropical *Pison*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

134. *premunitum* Leclercq

Pison premunitum Leclercq, 1965a:77, ♀. Holotype: ♀, Zaire: Equateur: Eala (Inst. Roy. Sci. Nat. Belgique). – Leclercq, 1965a:71 (in key to Afrotropical *Pison*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

135. *priscum* R. Turner

Pison insulare st. *priscum* R. Turner, 1908:510, ♀. Holotype or syntypes: ♀, Australia: Queensland: Mackay (BMNH). – **As *Pison priscum***: R. Turner, 1916g:596 (new status, in key to Australian *Pison*), 602 (new status, recognition characters); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:261 (in catalog of Australian Sphecidae).

136. *pulawskii* Antropov

Pison pulawskii Antropov, 1994b:130, ♀, ♂. Holotype: ♀, India: Rajasthan: Udaipur (CAS).

137. *pulchrinum* R. Turner

Pison pulchrinum R. Turner, 1916g:613, ♀, ♂. Syntypes: Australia: Queensland: Mackay and Kuranda (BMNH). – R. Turner, 1916g:598 (in key to Australian *Pison*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:261 (in catalog of Australian Sphecidae).

138. *punctifrons* Shuckard

Pison punctifrons Shuckard, 1838:77, ♀. Holotype or syntypes: India or St. Helena: no specific locality (OXUM?). – F. Smith, 1856:313 (in catalog of Hymenoptera in British Museum), 1869a:290 (in checklist of *Pison*); Kohl, 1885a:188 (in checklist of world *Pison*); Cameron, 1889c:118 (in checklist of Oriental *Pison*); Bingham, 1897:219 (in revision of Indian and Pakistani aculeates); Dalla Torre, 1897:712 (in catalog of world Hymenoptera); Bingham, 1908:355 (India: Purneah); R. Turner, 1916g:595 (in key to *Pison* of India), 625 (synonymy); Maidl, 1925:390 (Indonesia: Sumatra); Yasumatsu, 1935e:236 (in revision of Japanese *Pison*: Honshu, Amami Oshima and Bonin Islands), 1936a:361 (Bonin = Ogasawara Islands), 1937b:134 (Caroline Islands: Palau Islands); Iwata, 1939b:170 (nesting habits); Yasumatsu, 1939b:83 (in key to *Pison* of eastern Asia, in checklist of *Pison* of Japanese Empire); Krombein, 1949b:384 (in key to Sphecidae of Micronesia), 400 (Marshall, Mariana, and Caroline Islands), 1950b:139 (additional Micronesian localities); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands), 145 (bibliographic references; Micronesia); Iwata and Yoshikawa, 1961:399 (Thailand); Tsuneki, 1962a:5 (Japan: Ryukyus Islands: Island of Amami-Oshima); Iwata, 1964c:5 (nesting habits); Tano, 1964:38 (Japan: Kyushu: Island of Yakushima); Tsuneki, 1964g:49 (in key to Trypoxylini of Japan; Japan, Korea; synonymy); Baltazar, 1966:335 (in catalog of Hymenoptera of Philippines); Tsuneki, 1967d:20 (Taiwan); Haneda, 1968a:44 (Japan), 1968b:55 (Japan: Nagano Prefecture: Ina District); Tsuneki, 1968d:54 (Taiwan), 1970d:8 (nesting habits); Haneda, 1971b:31 (Taiwan); Tsuneki, 1971g:19 (Taiwan); Yamada, 1971:35 (Japan: Aichi Prefecture); Haneda, 1972a:5 (Taiwan); Tano, 1972:24 (Japan: Ryukyus Islands); Haneda, 1973:30 (Japan: Bonin Islands: Chichijimas Islands); Murota, 1973a:101 (Japan: Ryukyus Islands: Amami Group), 1973b:117 (Taiwan); Tsuneki, 1974b:636 (Thailand); Nambu, 1975b:62 (Japan: Saitama Prefecture); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Tsuneki, 1976b:94 (Philippines), 1977j:277 (Taiwan), 1982b:16 (known from Korea), 1982d:10 (Taiwan), 1982g:60 (known from Ryukyu archipelago), 1983a:86 (Philippines), 102 (in key to *Pison* of Philippines), 1983c:42 (in key to *Pison* of New Guinea), 1984a:4 (Ogasawara = Bonin Islands); Paik, 1985:199 (in

- list of Sphecidae of Korea); Radović, 1985:65 (sting apparatus analyzed); Takahashi 1993:3 (Japan: Island of Hachijo-Jima); Miyatake, 1996:101 (specimens in Hiroshi Aoki collection); Wu and Zhou, 1996a:100 (in revision in Economic Insect Fauna of China); D. Baker, 1998:173 (type origin and depository); Porter, Stange, and Wang, 1999:9 (in checklist of Sphecidae of Taiwan); Yamane, Ikudome, and Terayama, 1999:529 (in Identification Guide to Crabronidae of Nansei = Ryukyu Islands, Japan); Lee and Shin, 2000:24, 25, 27 (Korea: Suwon and Kwangju-gun); Krombein and Norden, 2001:276 (nesting habits); Haneda, Nosaka, Tano, Kurokawa, and Murota, 2004:32 (Japan: Gifu Prefecture); Haneda, Nozaka, Tano, Kurokawa, and Murota, 2005:47 (Japan: Gifu Prefecture); Hua, 2006:282 (in list of Chinese insects, geographic distribution); Haneda, Nozaka, Tano, Kurokawa, Murota, and Murota, 2007:54 (Japan: Kagoshima Prefecture: Amami Oshima Islands); Terayama and Nambu, 2009:2, 23 (in key to Trypoxylini of Japan); Takahashi, 2010:19 (Japan: in list of Hymenoptera of Ogasawara = Bonin islands); Haneda, 2011:46 (Philippines: Palawan); T. Li, and Q. Li, 2011:62 (in key to *Pison* of China); J.-K. Kim, 2014:438 (in catalog of Sphecidae s.l. of Korean Peninsula).
- Pison suspiciosum* F. Smith, 1858a:104, ♀ (as *suspiciosus*, incorrect original termination). Holotype or syntypes: ♀, Singapore (OXUM). Synonymized with *Pison punctifrons* by R. Turner, 1916g:625. – F. Smith, 1863b:135 (known from Singapore), 1869a:291 (in checklist of *Pison*), 1871a:366 (in catalog of Oriental Aculeata); Kohl, 1885a:188 (in checklist of world *Pison*); Cameron, 1889c:118 (in checklist of Oriental *Pison*); Bingham, 1897:219 (in revision of Indian and Pakistani aculeates); Dalla Torre, 1897:713 (in catalog of world Hymenoptera); Rothney, 1903:104 (India: West Bengal: Barrackpore, now Barrakpur); Pagden, 1934a:461 (Malay Peninsula; nests build of mud; prey: mainly immature *Pardosa* sp., Lycosidae, and a few immature Attidae); Iwata, 1964b:375 (nesting habits in Thailand).
- Pison fabricator* F. Smith, 1869a:297, ♀. Holotype or syntypes: ♀, China: Hong Kong (BMNH). Synonymized with *Pison punctifrons* by R. Turner, 1916g:625. – Kohl, 1885a:186 (in checklist of world *Pison*); Dalla Torre, 1897:711 (in catalog of world Hymenoptera); Strand, 1913b:164 (Taiwan, redescription); Sonan, 1927:136 (Taiwan), 1931:7 (Pescadores Islands); Yasumatsu, 1933b:265 (Japan: Island of Ishigaki), corrected to *Pison punctifrons* by Tsuneki, 1982g:60; Katayama, 1934:225 (nesting habits).
- Pison striolatum* Cameron, 1897a:82, ♀. Holotype or syntypes: ♀, India: Uttarakhand: Mussooree (OXUM). Synonymized with *Pison punctifrons* by R. Turner, 1916g:625. – Bingham, 1897:220 (in revision of Indian and Pakistani aculeates); S. Gupta, 1995:86 (India: Uttar Pradesh).
- Pison lagunae* Ashmead, 1904d:131, ♂. Holotype: ♂, Philippines: Luzon: Laguna de Bay (USNM). Synonymized with *Pison punctifrons* by Krombein, 1949b:400. – Ashmead, 1904d:150 (listed); R. Brown, 1906:687 (in catalog of Philippine Hymenoptera); R. Turner, 1916g:625 (probably a synonym of *Pison punctifrons*); Swezey, 1942:185 (Guam); Giner Marí, 1945c:857 (India: Maharashtra: Bandra).
- Pison javanum* Cameron, 1905k:63, ♂ (as *javanus*, incorrect original termination). Holotype or syntypes: ♂, Indonesia: Java: Tjandi near Semarang (Amsterdam). Synonymized with *Pison punctifrons* by R. Turner, 1916g:625.
- Pison japonicum* Gussakovskij, 1937:627, ♂. Holotype: ♂, Japan: no specific locality (ZIL). Synonymized with *Pison punctifrons* by Tsuneki, 1964g:49.
- As *Pison* sp.: Fullaway, 1913:283 (Guam), corrected to *Pison punctifrons* by Krombein, 1949b:400.

139. *punctulatum* Kohl

- Pison punctulatum* Kohl, 1884a:336, ♀, ♂. Syntypes: Australia: Queensland: Peak Downs (NHMW). – Kohl, 1885a:188 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:712 (in catalog of world Hymenoptera); Vachal, 1907:114 (New Caledonia, determination tentative); R. Turner, 1908:512 (Australia: Queensland: Mackay and Peak Downs); W. Schulz, 1911b:198 (New South Wales, variation); R. Turner, 1916g:597 (in key to Australian *Pison*), 608 (recognition characters); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:261 (in catalog of Australian Sphecidae); Dollfuss, 1989:11 (type material in NHMW).

140. *regale* F. Smith

- Pison regale* F. Smith, 1852b:34, ♀ (as *regalis*, incorrect original termination). Holotype or syntypes: ♀, China: no specific locality (BMNH). – F. Smith, 1856:314 (in catalog of Hymenoptera in British Museum), 1869a:290 (in checklist of *Pison*); Kohl, 1885a:188 (in checklist of world *Pison*); Dalla Torre, 1897:712 (in catalog of world Hymenoptera); R. Turner, 1916g:621 (in revision of Old World non-Australian *Pison*); nec Gussakovskij, 1932:9 (= *Pison ussuriense*); Gussakovskij, 1937:624 (in revision of Palearctic *Pison*); Yasumatsu, 1939b:82 (in key to *Pison* of eastern Asia); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae);

Wu and Zhou, 1996a:101 (in revision in Economic Insect Fauna of China); Hua, 2006:282 (in list of Chinese insects, geographic distribution); T. Li, and Q. Li, 2011:62 (in key to *Pison* of China).

141. *repentinum* Arnold

Pison repentinum Arnold, 1940:103, ♀. Holotype: ♀, Zimbabwe: Bulawayo (SAM). – Arnold, 1949:272 (description of ♂, Malawi: Zomba); Leclercq, 1965a:70 and 72 (in key to Afrotropical *Pison*), 77 (interpretation of species); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

142. *rothneyi* Cameron

Pison rothneyi Cameron, 1897a:81, ♀ (as *Rothneyi*, incorrect original capitalization). Holotype or syntypes: ♀, India: West Bengal: Barrackpore, now Barrakpur (OXUM). – Bingham, 1897:221 (in revision of Indian and Pakistani aculeates); R. Turner, 1916g:595 (in key to *Pison* of India), 617 (bibliographic references, synonymy); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Menke, 1988a:38 (possibly member of the *agile* group of *Pison*); Antropov, 1994b:127 (in revision of *agile* species group of *Pison*); Pham, Kumar and Danilov, 2015:1592 (in list of Sphecidae s.l. of Vietnam). – As *Parapison rothneyi*: Rothney, 1903:104 (new combination, India: West Bengal: Barrackpore, now Barrakpur).

Pison crassicorne Cameron, 1897:25, ♀, actually ♂. Holotype or syntypes: ♂, India: West Bengal: Barrackpore, now Barakpur (OXUM). Synonymized with *Pison rothneyi* by R. Turner, 1916g:617. – Rothney, 1903:104 (India: West Bengal: Barrackpore, now Barrakpur); Ramakrishna Aiyar, 1916:554 (in catalog of Indian aculeates described after Bingham, 1897).

As *Pison erythropus*: Tsuneki, 1974b:637 (Thailand; subgenus *Krombeiniellum*), corrected to *Pison rothneyi* by Antropov, 1994b:127.

143. *ruficorne* F. Smith

Pison ruficorne F. Smith, 1856:315, ♀ (as *ruficornis*, incorrect original termination). Holotype: ♀, Australia: New South Wales: McIntyre River (BMNH). – Kohl, 1885a:188 (in checklist of world *Pison*); Froggatt, 1892:218 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:712 (in catalog of world Hymenoptera); R. Turner, 1908:514 (redescription; Australia: Victoria, Queensland, as *ruficornis*), 1916g:596 (in key to Australian *Pison*), 602 (recognition characters, locality records, as *ruficornis*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:261 (in catalog of Australian Sphecidae). – As *Pisonitus ruficornis*: F. Smith:1869a:298 (new combination, in checklist of *Pisonitus*).

144. *rufipes* Shuckard

Pison rufipes Shuckard, 1838:79, ♀. Syntypes: ♀, Australia: Van Diemen's Land, now Tasmania: no specific locality (BMNH and OXUM). – F. Smith, 1856:317 (in catalog of Hymenoptera in British Museum); Kohl, 1885a:188 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:713 (in catalog of world Hymenoptera); R. Turner, 1915b:557 (in key to *Pison* of Tasmania), 558 (Tasmania), 1916g:596 (in key to Australian *Pison*), 602 (recognition characters; Australia, Tasmania); Williams, 1945:438 (New Caledonia); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Evans, Matthews, and Hook, 1981:221 (nest and prey); Cardale, 1985:262 (in catalog of Australian Sphecidae); Callan, 1990:20 (New Caledonia: no specific locality); K. Walker, Naumann, Austin, Taylor, and Cardale, 1992:49 (in catalog of insects of Tasmania); Naumann, 1993:185 (Australia: Queensland: Heathlands area in Cape York); D. Baker, 1998:173 (type origin and depository); Naumann, 1998:185 (Australia: northwest Queensland: Musselbrook area, approximately 18°40'S 138°23'E); Jennings, Krogmann, and Burwell, 2013:32 (in checklist of Hymenoptera of New Caledonia). – As *Pisonitus rufipes*: F. Smith:1869a:298 (new combination, in checklist of *Pisonitus*).

145. *rufitarse* Arnold

Pison rufitarse Arnold, 1944:19, ♀. Holotype: ♀, Zimbabwe: Selukwe, now Shurugwi (originally R.H.R. Stevenson collection, now SAM). – Leclercq, 1965a:73 (in key to Afrotropical *Pison*), 77 (diagnostic character); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Hancock, Chahwanda, and Mhlanga, 1995:39 (syntype in Bulawayo Museum).

146. *rugosum* F. Smith

Pison rugosum F. Smith, 1856:313, ♀ (as *rugosus*, incorrect original termination). Holotype or syntypes: ♀, India: no specific locality (BMNH or OXUM). – F. Smith, 1871a:366 (in catalog of Oriental Aculeata); Kohl, 1885a:188 (listed); Cameron, 1889:118 (in checklist of Oriental *Pison*); Bingham, 1897:218 (in revision of Indian and Pakistani aculeates); Dalla Torre, 1897:713 (in catalog of world Hymenoptera); Rothney, 1903:104 (India: West Bengal: Barrackpore, now Barrakpur); R. Turner, 1916g:595 (in key to

Pison of India), 619 (recognition characters, as *rugosus*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae). – **As *Pisonitus rugosus***: F. Smith:1869a:298 (new combination, in checklist of *Pisonitus*); Horne, 1870:165 (nesting habits). *Pison appendiculatum* Cameron, 1897c:24, sex not indicated. Syntypes: India: West Bengal: Barrackpore, now Barrakpur 20 km north of Calcutta (OXUM). Synonymized with *Pison rugosum* by R. Turner, 1916g:619. – Rothney, 1903:104 (India: West Bengal: Barrackpore, now Barrakpur); Ramakrishna Aiyar, 1916:554 (in catalog of Indian aculeates described after Bingham, 1897).

147. *sarawakense* Cameron

Pison sarawakense Cameron, 1903d:163, ♀. Holotype or syntypes: ♀, Malaysia: Borneo (Sarawak): no specific locality (BMNH). – R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

148. *scabrum* R. Turner

Pison scabrum R. Turner, 1908:509, ♀. Holotype or syntypes: ♀, Australia: Queensland: Mackay (BMNH). – R. Turner, 1916g:598 (in key to Australian *Pison*), 608 (comparison with *Pison congener* and *nitidum*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:262 (in catalog of Australian Sphecidae).

149. *scruposum* Arnold

Pison scruposum Arnold, 1955:749, ♂. Holotype: ♂, Zimbabwe: Melsetter (SAM). – Leclercq, 1965a:71 (in key), 77 (bibliographic reference to original description); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

150. *separatum* F. Smith

Pison separatum F. Smith, 1869a:294, ♂ (as *separatus*, incorrect original termination). Holotype or syntypes: ♂, Australia: Western Australia: Champion Bay, now Geraldton (BMNH). – Kohl, 1885a:188 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:713 (in catalog of world Hymenoptera); R. Turner, 1916g:598 (in key to Australian *Pison*), 610 (comparison with *Pison marginatum*, as *separatus*). R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:262 (in catalog of Australian Sphecidae).

151. *sericeum* Kohl

Pison sericeum Kohl, 1888:140, ♂. Syntypes: ♂, Greece: Attica: no specific locality (NHMW). – Dalla Torre, 1897:713 (in catalog of world Hymenoptera); R. Turner, 1916g:620 (bibliographic reference to original description, Italy); Gussakovskij, 1937:630 (original description copied); de Beaumont, 1960a:21 (Greece: Island of Rhodes), 1961d:55 (in revision of Mediterranean *Pison*), 1965a:55 (Greece), 1967a:338 (Turkey); Balthasar, 1972:222 (in Sphecid Fauna of Czechoslovakia: may be expected in the country; Bulgaria: Sandanski); de Beaumont, Bytinski-Salz and Pulawski, 1973:19 (Israel); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Pulawski, 1978:252 (in key to Sphecidae of European part of former USSR); Antropov, 1989a:57 (as new synonym of *Pison fasciatum*); Dollfuss, 1989:11 (type material in NHMW), 1991:120 (in key to Sphecidae of North and Central Europe); Shkuratov, 1998:97 (Russia: Rostov Oblast'); Antropov in Bitsch et al., 2001:356 (in Sphecid Fauna of Western Europe, synonymy with *Pison fasciatum* incorrect); Shkuratov, 2004a:78 (Russia: Rostov Oblast': Rostovskiy Nature Reserve); Jacobs, 2005a:450 (Bulgaria: Melnik); Standfuss and Standfuss, 2006b:98 (Greece: Thessalia: Magnisia Peninsula at 39°N 23°E); Ljubomirov and Yildirim, 2008:238 (in catalog of Crabronidae of Turkey); Tüzün and Yüksel, 2010:4471 (Turkey: Niğde Province); Yildirim, Ljubomirov, and Lelej, 2014:13 (distribution in Turkey by biogeographic provinces); Atbaei, Fallahzadeh, and Ljubomirov, 2015:21 (Iran: Fars Province); Koçak and Kemal, 2015:150 (in checklist of Hymenoptera of Turkey); Sadeghi, Fallahzadeh, Ostovan, Ljubomirov, and Hesami, 2016:431 (Iran: Fars Province); Yildirim, Ljubomirov, Özbek, and Yüksel, 2016:39 (Turkey: Ankara, Erzurum, Konya, and Tunceli provinces); Antropov, 2017b:244 (in catalog of Crabroninae of Russia); Gülmez and Can, 2017:82 (Turkey: Erzincan Province); Jahantigh, Rakhshani, Mokhtari, and Ramroodi, 2017:69 (Iran: known from Fars Province).

152. *seyrigi* Arnold

Pison seyrigi Arnold, 1945:3, ♀, ♂ (as *Seyrigi*, incorrect original capitalization). Syntypes: Madagascar: Ivondro (MNHN). – R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Madl, 1997:820 (Madagascar: Island of Nosy Boraha), 821 (in checklist of Nosy Boraha Sphecidae); Pulawski, 2003b:797 (in checklist of Malagasy Sphecidae); Madl, 2014a:978 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

153. *simillimum* F. Smith

Pison simillimum F. Smith, 1869a:292, ♂ (as *simillimus*, incorrect original termination). Holotype or syntypes: ♂, Australia: no specific locality (BMNH). – Kohl, 1885a:188 (in checklist of world *Pison*); Froggatt, 1892:217 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:713 (in catalog of world Hymenoptera); R. Turner, 1916g:597 (in key to Australian *Pison*), 609 (recognition characters; Australia: Victoria, as *simillimus*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:262 (in catalog of Australian Sphecidae).

154. *simulans* R. Turner

Pison simulans R. Turner, 1915b:559, ♂. Holotype or syntypes: ♂, Australia: Tasmania: Eaglehawk Neck (BMNH). – R. Turner, 1915b:557 (in key to *Pison* of Tasmania), 1916g:596 (in key to *Pison* of Australia), 600 (recognition characters); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:262 (in catalog of Australian Sphecidae); K. Walker, Naumann, Austin, Taylor, and Cardale, 1992:49 (in catalog of insects of Tasmania);

155. *sogdianum* Gussakovskij

Pison sogdianum Gussakovskij, 1937:632, ♂, ♀. Syntypes: Uzbekistan: five localities in Samarkand area (ZIL). – R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Kazenas, 1978b:145 (in key to Sphecidae of Kazakhstan and Central Asia), 2001b:34 (in checklist of Sphecidae of Kazakhstan and Central Asia), 2002a:84 (geographic distribution, collecting localities in Kazakhstan), 2004b:105 (Kazakhstan: western Tien Shan), 2013a:76 (color photograph of adult wasps, short information on geographic distribution and nesting habits), 2013b:496 (southeast Kazakhstan: Sortogay on Sharyn River 20 km west of Sharyn River mouth), 2014a:136 (Kazakhstan: Karatau Mountain Range).

156. *speculare* R. Turner

Pison speculare R. Turner, 1911b:371, ♀. Holotype or syntypes: ♀, Seychelles: Praslin (BMNH). – R. Turner, 1916g:594 (in key to Afrotropical *Pison*), 624 (recognition characters); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Madl, 2014a:978 (in catalog of Ampulicidae, Crabronidae, and Sphecidae of Madagascar, with synonymy and locality records).

157. *spinolae* Shuckard

Pison spinolae Shuckard, 1838:76, ♀ (as *Spinolae*, incorrect original capitalization). Syntypes (“in my own collection and that of Rev. F.W. Hope”): ♀, Australia: New South Wales: Sydney (depository unknown). – F. Smith, 1856:315 (in catalog of Hymenoptera in British Museum); A. Costa, 1864a:61 (one specimens from Adelaide, Australia, in Napoli Museum); de Saussure, 1867:66 (Australia: Sydney; redescription); F. Smith, 1869a:290 (in checklist of *Pison*); Kohl, 1885a:188 (in checklist of world *Pison*); H. Roth, 1885:321 (nest structure, prey); Froggatt, 1892:218 (in catalog of Australian Hymenoptera), 1894:33 (nest and prey); Radoszkowski, 1892:592 (male genitalia); Dalla Torre, 1897:713 (in catalog of world Hymenoptera); R. Turner, 1915b:558 (in key to *Pison* of Tasmania), 1916g:597 (in key to Australian *Pison*), 607 (in revision of Australian *Pison*); Richards, 1930b:91 (nest); Cumber, 1953:16 (New Zealand; nest parasite: *Melittobia clavicornis* (Cameron), a eulophid); Miller, 1955:36 (nesting sites, preying on spiders); Cowley, 1961:45 (parasite: *Melittobia clavicornis*), 1962:355 (egg and larva); D. Miller, 1971:25 (...); Sharell, 1971:179 (nesting habits); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Callan, 1977:46 (nest parasite *Macrosiagon diversiceps* (Blackburn), a rhipiphorid beetle, reared from *Pison spinolae* at Canberra, Australia); Ferro et al., 1977:16 (common name in New Zealand: mason wasp); Callan, 1979:34 (New Zealand; available information reviewed); Casolari and Casolari Moreno, 1980:114 (specimens in M. Spinola collection); Evans, Matthews, and Hook, 1981:225 (nesting habits); Cardale, 1985:262 (in catalog of Australian Sphecidae); Macfarlane and Palma, 1988:423 (nest parasite: *Melittobia australica* Girault, a eulophid); Naumann, 1990a:24 (Norfolk Island); Valentine and Walker, 1991:40 (in catalog of New Zealand Hymenoptera); K. Walker, Naumann, Austin, Taylor, and Cardale, 1992:49 (in catalog of insects of Tasmania); Harris, 1994:33 (in Fauna of New Zealand, description of mature larva, cocoon, nest); D. Baker, 1998:173 (origin and depository of type material); Smithers, 1998:46 (in list of insects of Norfolk Island); Pagliano, 2003a:508 (Australia: Victoria: Melbourne), 2011:115 (specimens in coll. Spinola, Torino).

Pison australe de Saussure, 1854:11, ♀ (as *australis*, incorrect original termination). Holotype or syntypes: ♀, New Holland, now Australia: no specific locality (MHNG). Synonymized with *Pison spinolae* by F. Smith, 1856:315. – de Saussure, 1863:69 (synonymy with *spinolae* recorded).

Pison tasmanicum F. Smith, 1856:316, ♀ (as *tasmanicus*, incorrect original termination). Holotype or syntypes: ♀, Australia: Van Diemen's Land = Tasmania: no specific locality (BMNH). Synonymized with *Pison spinolae* by F. Smith, 1869a:290.

Taranga dubia W.F. Kirby, 1883:201, ♂. Holotype or syntypes: ♂, New Zealand: no specific locality (BMNH). Synonymized with *Pison spinolae* by R. Turner, 1916g:607. – **As *Pison dubium***: Kohl in Dalla Torre, 1897:711 (new combination, in catalog of world Hymenoptera); Hutton, 1904:98 (in list of New Zealand fauna).

Pison pruinosum Cameron, 1898a:44, ♀ (as *pruinus*, incorrect original termination). Holotype or syntypes: ♀, New Zealand: Greymouth (BMNH). Synonymized with *Pison spinolae* by R. Turner, 1916g:607. – Cameron, 1901e:220 (known from New Zealand); Hutton, 1904:98 (in list of New Zealand fauna).

158. *stangei* Menke

Pison stangei Menke, 1968c:1102, ♂, ♀. Holotype: ♂, Argentina: Tucumán: Amaicha (Inst. M. Lillo). – R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae); Menke, 1988a:41 (in revision of New World *Pison*; northwestern Argentina, Bolivia), 1992b:10 (Argentina); Amarante, 2002:47 (in catalog of Neotropical Crabronidae).

159. *strandii* Yasumatsu

As *Pison regale*: Gussakovskij, 1932:9 (Russia: Primorskiy Krai), corrected to *Pison ussuriense* by Gussakovskij, 1937:624.

Pison strandii Yasumatsu, 1935e:231, ♀. Holotype: ♀, Japan: Honshu: Settsu: Mount Kinri (Entomological Laboratory, Kyushu University, now lost; see Antropov, 1988:88). – Yasumatsu, 1939b:82 (in key to *Pison* of eastern Asia), 84 (in checklist of *Pison* of Japanese Empire); Iwata, 1964c:4 (nest and prey); Tsuneki, 1964d:13 (Japan: Island of Tsushima), 1964g:48, 49 (in key to Trypoxylini of Japan); Haneda, 1968b:55 (Japan: Nagano Prefecture: Ina District); Nishino, 1968:25 (Japan); Tano, 1968:32 (Japan); T. Iida, 1969a:277 (description of mature larva); Itami, 1969:50 (Japan: Niigata Prefecture); Tsuneki, 1969e:25 (Japan: specimens in Osaka Museum of Natural History), 1970d:1 (nesting habits); Yamada, 1971:35 (Japan: Aichi Prefecture); Nambu, 1973a:150 (Japan: Saitama Prefecture); Suda, 1973:121 (Japan: Yamanashi Prefecture); Tsuneki and Moriyama, 1973:15 (orientation during emerging from nest); Nambu, 1975b:62 (Japan: Saitama Prefecture); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Tsuneki, 1982b:16 (known from Korea); Paik, 1985:199 (in list of Sphecidae of Korea); Steiner, 1986:104 (references to publications on nesting habits); Antropov in Nemkov, Kazenas, Budrys, et Antropov, 1995:415 (in key to Sphecidae of Russian Far East); Miyatake, 1996:101 (specimens in Hiroshi Aoki collection); Lee and Shin, 2000:24, 25, 27 (Korea: Suwon and Kwangju-gun); Togashi, 2001:19 (Japan: Ishikawa Prefecture: Shiramine); Haneda, 2003:4 (Japan: Nagasaki Prefecture: Tsushima); Tano, Kurokawa, Murota, and Nozaka, 2003:31 (Japan: Nagasaki Prefecture: Tsushima); Ohl and Linde, 2003:151 (number of ovarioles); Suda, 2004:40 (Japan: Yamanashi Prefecture); Negoro, Haneda, and Tano, 2005:46 (Japan: Toyama Prefecture); Nemkov, 2008b:20 (in catalog of Crabronidae of Asiatic Russia), 2009b:84 (in new catalog of Sphecidae and Crabronidae of Asiatic Russia), 2009c:237 (Russia: Primorskiy Krai: Lazovsky Nature Reserve); Terayama and Nambu, 2009:2, 24 (in key to Trypoxylini of Japan); Nemkov, 2012c:439 (in catalog of Crabronidae of Russian Far East); J.-K. Kim, 2014:438 (in catalog of Sphecidae s.l. of Korean Peninsula); Antropov, 2017b:244 (in catalog of Crabroninae of Russia).

Pison iwatai Yasumatsu, 1935e:233, ♀. Holotype: ♀, Japan: Honshu: Settsu (Entomol. Lab. Kyushu Univ.). Synonymized with *Pison strandii* by Tsuneki, 1964g:48 and 1964j:43. – Masuda, 1939c:114 (nesting habits); Yasumatsu, 1939b:82 (in key to *Pison* of eastern Asia), 83 (in checklist of *Pison* of Japanese Empire); Iwata, 1964c:4 (nest, prey).

Pison ussuriense Gussakovskij, 1937:624, ♀. Holotype: ♀, Russia: Ussuri Krai: Tigrovaya (ZIL). Synonymized with *Pison strandii* by Antropov, 1988:88. – R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Antropov, 1986a:84 (Russia: Primorskiy Krai; description of ♂).

160. *strenuum* R. Turner

Pison strenuum R. Turner, 1916g:606, ♀, ♂. Syntypes: Western Australia: Perth, Yallingup (BMNH). – R. Turner, 1916g:597 (in key to Australian *Pison*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:262 (in catalog of Australian Sphecidae).

161. *strictifrons* Vachal

Pison strictifrons Vachal, 1907:114, ♀. Syntypes: New Caledonia: no specific locality (MNHN). – R. Turner, 1916g:626 (bibliographic reference, morphological characters); Williams, 1945:440 (New Caledonia, recognition characters); Yasumatsu, 1953:134 (in list of *Pison* of Pacific islands); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Callan, 1990:20 (New Caledonia: no specific locality); Rasmussen, 2012:46 (in list of species described by Vachal); Jennings, Krogmann, and Burwell, 2013:32 (in checklist of Hymenoptera of New Caledonia).

162. strigulosum R. Turner

Pison strigulosum R. Turner, 1917a:110, ♀. Holotype or syntypes: ♀, Ghana: Tamale (BMNH). – Arnold, 1924:6 (original description copied), 1930:9 (in checklist of Afrotropical Sphecidae); Leclercq, 1965a:72 (in key to Afrotropical *Pison*: unrecognizable species), 78 (bibliographic references); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

163. styphopteron Menke

Pison styphopteron Menke, 1988a:50, ♀, ♂. Holotype: ♀, Peru: Madre de Dios: Avispas (MCZ). Paratype: Colombia. – Amarante, 2002:47 (in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:12 (in checklist of Crabronidae of Peru).

164. susanae Cheesman

Pison susanae Cheesman, 1955:83, ♀, ♂. Holotype: ♀, New Caledonia: Puébo: Mount Tinchialit (BMNH). – R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Callan, 1990:20 (New Caledonia: no specific locality); Jennings, Krogmann, and Burwell, 2013:32 (in checklist of Hymenoptera of New Caledonia).

165. syphe Menke

Pison syphe Menke, 1988a:73, ♀, ♂. Holotype: ♀, Peru: Cajamarca: Cajamarca (Instituto Miguel Lillo). – Amarante, 2002:47 (in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:12 (in checklist of Crabronidae of Peru).

166. tahitense de Saussure

Pison tahitense de Saussure, 1867:65, ♀, ♂. Syntypes: Otaohiti, now Tahiti: no specific locality (NHMW). – F. Smith, 1869a:291 (in checklist of *Pison*); Kohl, 1885a:188 (in checklist of world *Pison*); Dalla Torre, 1897:713 (in catalog of world Hymenoptera); Kohl, 1908b:309 (Samoa: Upolu; Papua New Guinea: Neupommern, now New Britain); R. Turner, 1916g:627 (diagnostic characters), 1919a:338 (Fiji); Cheesman, 1928a:175 (Marquesas and Society Islands); Perkins and Cheesman, 1928:6 (listed from Samoa), 26 (Samoa, diagnostic characters); F. Williams, 1947:318 and 331 (Fiji); Krombein, 1949b:385 (in key to Sphecidae of Micronesia); Yasumatsu, 1953:135 (in list of *Pison* of Pacific islands), 146 (bibliographic references; Marshall Islands); Fullaway, 1957:279 (in checklist of Hymenoptera of Fiji); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Kami and Miller, 1998:57 (in checklist of Samoan insects); Evenhuis, 2007:6 (in checklist of Hymenoptera of Fiji); Jennings, Krogmann, and Burwell, 2013:32 (in checklist of Hymenoptera of New Caledonia).

Pison reichingeri Kohl, 1908:309, ♀, ♂ (as *Reichingeri*, incorrect original capitalization). Syntypes: Samoa: Upolu (NHMW). Synonymized with *Pison tahitense* by Perkins and Cheesman, 1928:26. – R. Turner, 1916g:627 (diagnostic characters), 1919a:338 (Fiji), 1919b:239 (New Caledonia); Dollfuss, 1989:11 (type material in NHMW); Kami and Miller, 1998:57 (in checklist of Samoan insects).

167. tenebrosus R. Turner

Pison tenebrosus R. Turner, 1908:518, ♀. Holotype or syntypes: ♀, Australia: Queensland: Mackay (BMNH). – R. Turner, 1916g:596 (in key to Australian *Pison*), 600 (wing venation); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:263 (in catalog of Australian Sphecidae).

168. testaceipes R. Turner

Pison testaceipes R. Turner, 1916g:618, ♂. Holotype or syntypes: ♂, Nigeria: Zungeru (BMNH). – R. Turner, 1916g:594 (in key to Afrotropical *Pison*), Arnold, 1924:9 (original description copied), 1930:10 (in checklist of Afrotropical Sphecidae); Leclercq, 1965a:69 (in key to Afrotropical *Pison*), 78 (bibliographic references); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

169. tibiale F. Smith

Pison tibiale F. Smith, 1869a:292, ♂ (as *tibialis*, incorrect original termination). Holotype or syntypes: ♂, Australia: West Australia: no specific locality (BMNH). – Kohl, 1885a:188 (in checklist of world *Pison*); Froggatt, 1892:218 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:713 (in catalog of world Hymenoptera); R. Turner, 1916g:598 (in key to Australian *Pison*), 610 (description, as *tibialis*); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Cardale, 1985:263 (in catalog of Australian Sphecidae).

170. *tosawai* Yasumatsu

Pison tosawai Yasumatsu, 1935e:234, ♂. Holotype: ♂, Japan: Bonin Islands: Island of Chichidjima (Osaka Mus. Nat. Hist.). – Yasumatsu, 1936a:361 (Bonin = Ogasawara Islands), 1939b:82 (in key to *Pison* of eastern Asia), 84 (in checklist of *Pison* of Japanese Empire); Yasumatsu, 1953:135 (in list of *Pison* of Pacific islands); Tsuneki, 1964g:49 (in key to Trypoxylini of Japan), 1984a:11 (known from Ogasawara = Bonin Islands); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Tsuneki, 1984g:10 (redescription of ♂, description of ♀); Terayama and Nambu, 2009:2, 24 (in key to Trypoxylini of Japan); Takahashi, 2010:19 (Japan: in list of Hymenoptera of Ogasawara = Bonin islands).

171. *transvaalense* Cameron

Pison transvaalense Cameron, 1910:152, ♀ (as *transvaalensis*, incorrect original termination). Holotype or syntypes: ♀, South Africa: Gauteng: Pretoria (TMP). – R. Turner, 1916g:594 (in key to Afrotropical *Pison*), 622 (species identity, as *transvaalensis*); Brauns, 1917:241 (type material in TMP, as *transvaalensis*); Arnold, 1924:6 (in revision of southern African *Pison*, as *transvaalensis*), 1930:9 (in checklist of Afrotropical Sphecidae); Schouteden, 1930:93 (Zaire, as *transvaalensis*); Leclercq, 1965a:72 (in key to Afrotropical *Pison*), 78 (bibliographic references, Zimbabwe, Zaire); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae); Rodgers and Homewood, 1982:233 (Tanzania: Usambara Mountains).

Pison clypeatum Cameron, 1910:153, ♀, actually ♂ (as *clypeatus*, incorrect original termination). Holotype or syntypes: ♂, South Africa: Limpopo: Warmberg (TMP). Synonymized with *Pison transvaalense* by R. Bohart and Menke, 1976:336. – R. Turner, 1916g:594 (in key to Afrotropical *Pison*), 623 (diagnostic characters); Brauns, 1917:241 (type in TMP); Arnold, 1924:4 (original description copied), 1930:9 (in checklist of Afrotropical Sphecidae); Leclercq, 1965a:72 (in key to Afrotropical *Pison*: unrecognizable species), 74 (analysis of previous descriptions).

172. *transversistriatum* Simon Thomas

Pison transversistriatum Simon Thomas in Simon Thomas and Wiering, 1993:405, ♀. Holotype: ♀, Cape Verde Islands: Island of Santiago: Serrado (Amsterdam).

173. *trukense* Yasumatsu

Pison trukense Yasumatsu, 1953:147, ♀, ♂. Holotype: ♂, Caroline Islands: Chuuk (as Truk) Islands: Tol: Olei (Entomological Laboratory, Kyushu University). – Yasumatsu, 1953:136 (in list of *Pison* of Pacific islands); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

174. *ugandense* Arnold

Pison ugandense Arnold, 1955:750, ♀ (as *ugandensis*, incorrect original termination.). Holotype: ♀, Uganda: Entebbe: Zika Forest (SAMC). – Leclercq, 1965a:70 (in key to Afrotropical *Pison*), 78 (bibliographic reference to original description); R. Bohart and Menke, 1976:336 (in checklist of world Sphecidae).

175. *vehti* Antropov

Pison vehti Antropov, 1994b:128, ♀, ♂. Holotype: ♀, Indonesia: Java: Idjen in Plateau Blawan (RMNH). Paratypes: Malaysia (Western), Sumatra.

176. *vestitum* F. Smith

Pison vestitum F. Smith, 1856:315, ♀ (as *vestitus*, incorrect original termination). Holotype or syntypes: ♀, Australia: no specific locality (BMNH). – F. Smith, 1869a:290 (in checklist of *Pison*, as *vestitus*); Kohl, 1885a:189 (in checklist of world *Pison*); Froggatt, 1892:218 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:713 (in catalog of world Hymenoptera); R. Turner, 1916g:598 (in key to Australian *Pison*), 613 (good species, as *vestitus*); R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae); Cardale, 1985:263 (in catalog of Australian Sphecidae).

177. *viosum* R. Turner

Pison viosum R. Turner, 1908:513, ♀, ♂. Syntypes: Australia: Queensland: Mackay (BMNH). – R. Turner, 1916g:596 (in key to Australian *Pison*), 602 (bibliographic reference, recognition); Richards, 1930b:91 (nest); R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae); Cardale, 1985:262 (in catalog of Australian Sphecidae).

178. wagneri Arnold

Pison wagneri Arnold, 1932:6, ♀ (as *Wagneri*, incorrect original capitalization). Holotype: ♀, Tanzania: Arusha District (Zool. Mus. Hamburg). – Leclercq, 1965a:73 (in key to Afrotropical *Pison*), 78 (interpretation of species); R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae).

179. westwoodii Shuckard

Pison westwoodii Shuckard, 1838:77, ♀ (as *Westwoodii*, incorrect original capitalization). Holotype: ♀, Australia: Van Diemen's Land = Tasmania: no specific locality (depository? not in BMNH nor in OXUM). – F. Smith, 1856:316 (in catalog of Hymenoptera in British Museum), 1869a:290 (in checklist of *Pison*); Kohl, 1885a:189 (in checklist of world *Pison*); Froggatt, 1892:218 (in catalog of Australian Hymenoptera); Dalla Torre, 1897:713 (in catalog of world Hymenoptera); R. Turner, 1915b:558 (in key to *Pison* of Tasmania, relationship to *Pison iridipenne*), 1916g:597 (in key to Australian *Pison*), 604 (variation, recognition characters; *Pison obliquum* is probably a synonym); R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae); Evans, Matthews, and Hook, 1981:224 (nesting habits); Cardale, 1985:263 (in catalog of Australian Sphecidae); Naumann, 1990a:24 (Norfolk and Philips Islands); K. Walker, Naumann, Austin, Taylor, and Cardale, 1992:49 (in catalog of insects of Tasmania); Naumann, 1993:185 (Australia: Queensland: Heathlands area in Cape York); D. Baker, 1998:173 (origin and depository of type material); Smithers, 1998:46 (in list of insects of Norfolk Island).

As *Pison iridipenne*: R. Turner, 1908:512 (Australia: Queensland: Cairns, Mackay), corrected to *Pison westwoodii* by R. Turner, 1915b:558.

180. woji Menke

Pison woji Menke, 1988a:92, ♀. Holotype: ♀, Papua New Guinea: Western Highlands Province: Bayier River (AEI).

181. wollastoni R. Turner

Pison wollastoni R. Turner, 1916g:624, ♀. Holotype or syntypes; ♀, island of St. Helena (BMNH). – R. Turner, 1916g:594 (in key to Afrotropical *Pison*), Bohart and Menke, 1976:337 (in checklist of world Sphecidae); Leclercq, 1976b:202 (description of ♂, recognition characters).

182. xanthopus (Brullé)

Nephridia xanthopus Brullé, 1833b:409, ♀ (as *Xanthopus*, incorrect original capitalization). Holotype: ♀, Guinea: no specific locality (MNHN). – Guérin-Méneville, 1844:441 (listed). – As *Pison xanthopus*: Shuckard, 1838:75 (new combination); F. Smith, 1856:314 (in catalog of Hymenoptera in British Museum), 1869a:290 (in checklist of *Pison*); Kohl, 1885a:189 (in checklist of world *Pison*); Dalla Torre, 1897:713 (in catalog of world Hymenoptera); Storey, 1916:110 (Egypt: Gezira, Maadi, Sakha, Suez); nec R. Turner, 1916g:594 and 621, and Arnold, 1924:9 (= *Pison carinatum*); Arnold, 1930:10 (in checklist of Afrotropical Sphecidae); Schouteden, 1930:93 (Zaire); Arnold, 1951:97 (Ghana: Kpeve); Leclercq, 1965a:69 (in key to Afrotropical *Pison*), 79 (bibliographic references, Zaire, Burundi); Menke, 1968:3 (some specimens have only two submarginal cells); R. Bohart and Menke, 1976:337 (in checklist of world Sphecidae).

Pison obscurum Shuckard, 1838:75, ♀, ♂ (as *obscurus*, incorrect original termination). Syntypes: South Africa: Cape Province: no specific locality (depository unknown). Synonymized with *Pison xanthopus* by F. Smith, 1856:314. – Kohl, 1885a:187 (in checklist of world *Pison*); D. Baker, 1998:173 (type origin, depository unknown).

sp.

R. Perkins, 1910:606 (Hawaiian Islands); Fullaway, 1913:283 (= *Pison esakii*, *oakleyi*, and *punctifrons*); Rau, 1933:183 (Panama: Barro Colorado Island); von Schulthess, 1935:306 (Indonesia: Java: Buitenzorg, now Bogor); Swezey, 1942:185 (= *Pison esakii* and *oakleyi*); Sokup, 1943:266 (Peru); Williams, 1945:442 (New Caledonia); Weber, 1948:222 (= *Pison insulare*); Evans, 1957b:98 (description of larva); Iwata, 1964b:3 (nesting habits in Thailand); Oniki, 1970:354 (nesting in active hummingbird nests in Brazil); Zapata, 1974:37 (Chile: Lampa near Santiago); Evans, Matthews, and Hook, 1981:226 (sp. near *tibiale*: nesting habits); A. Hutson, 1981:21 (Chagos Archipelago: Diego Garcia Atoll); Rodgers and Homewood, 1982:233 (Tanzania: Usambara Mountains); Naumann, 1983b:150 (Australia: nesting habits); Hua, 1989:117 (China); Naumann, 1993:184, 185 (Australia: Queensland: Heathlands area in Cape York); Camillo, Garófalo, Serrano, and Muccillo, 1995:466 (Brazil, highest nesting frequency in September to April); S. Gupta, 1995:86 (India: Uttar Pradesh); Barnett and Emms, 1998:49 (Chagos Archipelago); Naumann, 1998:185 (Australia:

northwest Queensland: Musselbrook area, approximately 18°40'S 138°23'E); Morato and O. Campos, 2000:434 (Brazil: Amazonas: 90 km N Manaus; effects of habitat fragmentation); Morato, 2001:740 (Brazil: Amazonas: 90 km north of Manaus; effects of habitat fragmentation); Klein, Steffan-Dewenter, Buchori, and Tschardtke, 2002:1008 (Indonesia: Sulawesi: Lore-Lindu National Park 60 km south of Palau); S. Gess and F. Gess, 2003:108 (South Africa: visiting flowers of *Foeniculum vulgare* Mill., Apiaceae, *Maytenus linearis* (L. f.) Marais, Celastraceae, and *Acacia karroo* (Hayne), Fabaceae); Klein, Steffan-Dewenter, and Tschardtke, 2006:319 (Indonesia: Sulawesi: Lore-Lindu National Park 60 km south of Palau); Kuhlmann, 2006:29, 30 (Cook Islands); Batelka and Hoehn, 2007:147 (nest parasite: *Macrosiagon* cf. *punctulaticeps* (Blackburn, 1899), a rhipiphorid); Batelka and Hoehn, 2007:147 (nest parasite: *Macrosiagon* cf. *punctulaticeps* (Blackburn, 1899), a rhipiphorid); Horta Vega, Pinson Domínguez, Barrientos Lozano, and Correa Sandoval, 2007: 46 (Mexico: Tamaulipas); Villemant, 2011:134 (Vanuatu: island of Espiritu Santo); Gadallah, Al Dhafer, Aldryhim, Fadl, and Elgharbawy, 2013:353 (in new catalog of Sphecidae of Saudi Arabia); Madl, 2014:997 (recorded from Mauritius by F. Williams, 1958:123); Silvestre, Demétrio, Trad, de Oliveira Lima, Auko, and de Souza, 2014:68 (Brazil: Mato Grosso do Sul: dry forests in Bodoquena Mountain Range and Brazilian Chaco, two species).

FOSSIL PISON

antiquum Antropov and Pulawski

Pison antiquum Antropov and Pulawski, 1996:16, ♀. Holotype: ♀, Dominican Republic: Cordillera Septentrional between Santiago and Puerto Plata (George O. Poinar collection). Age: upper Eocene to Oligocene. – Arillo and Ortuño, 2005:38 (in catalog of fossil insects from Dominican amber); Bennett and Engel, 2006:7 (in checklist of amber Sphecidae s.l.); Perez-Gelabert, 2008:241 (in list of insects of island of Hispaniola);.

cockerellae Rohwer

Pison cockerellae Rohwer, 1908c:519, ♀. Holotype: ♀, USA: Colorado: Teller County: Florissant (AMNH). Age: Lower Oligocene,

electrum Antropov and Pulawski

Pison electrum Antropov and Pulawski, 1989:312, ♀. Holotype: ♀: Germany: Island of Hiddensee (CAS). Age: Upper Eocene. – Bennett and Engel, 2006:7 (in checklist of amber Sphecidae s.l.).

eocenicum Nel

Pison eocenicum Nel, 2005:21, ♀. Holotype: ♀, France: Département d'Oise: Le Quesnoy Farm in Creil Region (MNHN, Laboratoire de Paléontologie). Age: Lowermost Eocene, in amber. – Bennett and Engel, 2006:7 (in checklist of amber Sphecidae s.l.).

glyptum Zhang

Pison glyptum Zhang, 1989:316. Holotype: China: Shandong Province: Linqu District: Shanwang (Shanwang Paleontological Museum). Age: Miocene: Shanwang Formation.

menkei Bennett and Engel

Pison menkei Bennett and Engel, 2008:114, ♀. Holotype: ♀, Dominican amber (E. Morone Amber Collection, Torino, Italy). Age: Lower Miocene.

oligocenum Cockerell

Pison oligocenum Cockerell in Rohwer, 1908c:520, ♀. Holotype: ♀, Baltic amber (originally Königsberg Museum, now lost). Age: Oligocene. – Bennett and Engel, 2006:7 (in checklist of amber Sphecidae s.l.).

Pison oligocaenum Cockerell, 1909b:4. Objective synonym of *Pison oligocenum* Cockerell, 1908.

NOMINA NUDA IN PISON

Pison aurifer de Saussure: Blackburn and Kirby, 1880:88 (Hawaiian Islands).

Pison punctatus Ashmead: R. Brown, 1906:687 (in catalog of Philippine Hymenoptera).

SPECIES DESCRIBED IN *PISON* AND TRANSFERRED TO OTHER GENERA

alini Antropov, 1996 = *Entomopison*
areolatum Spinola, 1851 = *Pisonopsis*
aureofaciale Strand, 1910 = *Entomopison*
caliginosus R. Turner, 1908 = *Aulacophilinus*
convexifrons Taschenberg, 1870 = *Entomopison*
cooperi Menke, 1988 = *Entomopison*
flavopictum F. Smith, 1860 = *Scapheutes*
gnythos Menke, 1988 = *Entomopison*
laetum F. Smith, 1860 = *Scapheutes*
longicorne Menke, 1988 = *Entomopison*
mandibulatum R. Turner, 1916 = *Aulacophilinus*
oaxaca Menke, 1988 = *Entomopison*
paraense Spinola, 1851 = *Bothynostethus*
pilosum F. Smith, 1873 = *Entomopison*
pyrrhicum Naumann, 1990 = *Aulacophilinus*
sphaerophallus Menke, 1988 = *Entomopison*
variicornis Reed, 1894 = *Pisonopsis*
vincenti Menke, 1988 = *Entomopison*
wasbaueri Menke, 1988 = *Entomopison*
weiri Naumann, 1990 = *Aulacophilinus*

TWO *TRYPOXYLON* INCORRECTLY PLACED IN *PISON*

***sapporoense* Tsuneki**

A *Trypoxylon* erroneously placed in *Pison* by Tsuneki, 1982b:16 (known from Korea).

***varipes nasutum* Tsuneki**

A *Trypoxylon* erroneously placed in *Pison* by Tsuneki, 1982b:16 (known from Korea).