

Last updated: 5 April, 2025

BICYRTES

Bicyrtes, from *bi-*, two, and the Greek word *κύρτη*, a fishing basket, is a variable gender name and should be treated as masculine (Article 30.1.4.2). The gender was not determined by Lepeletier de Saint Fargeau (1845) who included only one species (*servillii*) with masculine genitive ending.

Bicyrtes Lepeletier de Saint Fargeau, 1845:53. Type species: *Bicyrtes servillii* Lepeletier de Saint Fargeau, 1845 [= *Monedula ventralis* Say, 1824], by monotypy.

Bembidula Burmeister, 1874:122. Type species: *Monedula discisa* Taschenberg, 1870, designated by J. Parker, 1917:56.

Dumonela Reed, 1894:608. Type species: *Monedula sericea* Spinola, 1851 [= *Bembex variegata* Olivier, 1789], by original designation.

Revision: R. Bohart and Horning, 1971:20 (North America); R. Bohart, 1996b (world species, omitted *Bicyrtes angulifer*).

1. *affinis* (Cameron)

Bembidula affinis Cameron, 1897b:371, ♀. Holotype or syntypes: ♀, Mexico: Guerrero: Dos Arroyos (BMNH). – **As *Bicyrtes affinis***: Lohrmann, 1948:424 (in checklist of recently described *Bicyrtes*); R. Bohart and Horning, 1971:21 (new generic assignment, in key to North American *Bicyrtes*); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); Krombein, 1979b:1704 (in catalog of North American Hymenoptera, nesting sites, prey); R. Bohart, 1996b:143 (in worldwide revision of *Bicyrtes*); Amarante, 2002:8 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae).

2. *angulatus* (F. Smith)

Monedula angulata F. Smith, 1856:334, ♀, ♂. Lectotype: ♀, Brazil: Pará: Santarém (BMNH), designated by R. Bohart, 1996b:143. – **As *Bembidula angulata***: Handlirsch, 1889a:480 (new generic assignment, in revision of world Bembicinae); Dalla Torre, 1897:494 (in catalog of world Sphecidae); Ducke, 1904a:91 (Brazil: Pará State), 1907b:91 (Brazil: Maranhão State: São Luiz de Maranhão), 1908b:83 (Brazil: Ceará State: Quixadá); Schrottky, 1913a:232 (Paraguay); Bischoff and von Schulthess, 1937:169 (Argentina: Junca viejo). – **As *Bicyrtes angulata***: J. Parker, 1929:180 (new generic assignment, in revision of Stizini and Bembicini); Lohrmann, 1939:134 (relationship to *Bicyrtes angulifer*), 135 (relationship to *Bicyrtes micans* and *cingulatus*); Willink, 1947:559 (in revision of Bembicini of Argentina); Lohrmann, 1948:455 (is a mother species of *Bicyrtes angulifer*, and also of *B. micans* and *B. cingulatus*); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); Nascimento and Overal, 1980:3 (Brazil); Fritz, 1982:14 (Argentina: Corrientes: Ituzaingo); Raymond, 1989:306 (French Guyana); Amarante, 1993:20 (northeastern Brazil); R. Bohart, 1996b:143 (in worldwide revision of *Bicyrtes*); Martins, Soares, and Yanega, 1998:165 (nesting habits); 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). – **As *Bicyrtes angulatus***: Amarante, 2002:8 (in catalog of Neotropical Crabronidae); Evans and O'Neil, 2007:119 (summary of information on nesting habits); Guimarães, Buys, Vivallo, Guimarães Júnior, Storti Rodrigues, Guimarães, dos Santos Seppa, and de Carvalho, 2014:80 (Brazil: Rio de Janeiro: Ilha de Marambaia); Trad and Silvestre, 2017:4 (Brazil: Mato Grosso do Sul).

3. *angulifer* (Strand)

Bembidula angulifera Strand, 1910a:144, ♀, ♂. Syntypes: Paraguay: Asunción: Villa Morra (ZMHU). – Strand, 1927:253 (in list of species described by author). – **As *Bicyrtes angulifera***: Lohrmann, 1939:134 (new generic assignment, relationship to *Bicyrtes angulatus*), 1948:424 (in checklist of recently described *Bicyrtes*); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); not included in R. Bohart, 1996b. – **As *Bicyrtes angulifer***: Amarante, 2002:8 (in catalog of Neotropical Crabronidae).

4. *anisitsi* (Strand)

Bembidula anisitsi Strand, 1910a:142, ♀, ♂. Syntypes: Paraguay: Asunción: Villa Morra (ZMHU). – Strand, 1927:253 (in list of species described by author). – **As *Bicyrtes anisitsi***: Lohrmann, 1948:424 (new generic assignment, in checklist of recently described *Bicyrtes*), 1948:456 (diagnostic characters); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); Fritz, 1982:14 (Argentina: Corrientes: Ituzaingo); R. Bohart, 1996b:143 (in worldwide revision of *Bicyrtes*); Amarante, 2002:9 (in catalog of Neotropical Crabronidae).

Bembidula tridentata Strand, 1910a:146, ♂. Holotype: ♂, Paraguay: Asunción: Villa Morra (ZMHU). Synonymized with *Bicyrtes anisitsi* by Lohrmann, 1948:456 and by R. Bohart and Menke, 1976:537.

Bembidula bradleyi J. Parker, 1929:178, ♀. Holotype: ♀, Argentina: San Juan: Pie de Palo (Cornell Univ.). Synonymized with *Bicyrtes anisitsi* by Lohrmann, 1948:456, synonymy confirmed by Willink, 1953:347. – J. Parker, 1942:202 (description of ♂); Willink, 1947:565 (in revision of Bembicini of Argentina).

5. *brasilianus* R. Bohart

Bicyrtes brasilianus R. Bohart, 1996b:143, ♂ (as *brasiliana*, incorrect original termination). Holotype: ♂, Brazil: Mato Grosso: Barre de Tapirape (CAS). – **As *Bicyrtes brasilianus***: Amarante, 2005a:5 (in addendum to his 2002 catalog of Neotropical Crabronidae and Sphecidae).

6. *capnopterus* (Handlirsch)

Bembidula capnoptera Handlirsch, 1889a:497, ♀, ♂. Lectotype: ♀, USA: Kentucky: no specific locality (NHMW), designated by R. Bohart, 1970a:205. – Cameron, 1890a:96 (listed); Handlirsch, 1895:962 (Mexico); W. Fox, 1895d:354 (in revision of North American Bembicini); Dalla Torre, 1897:495 (in catalog of world Sphecidae); Ashmead, 1899d:239 (in checklist of North American Crabronidae); Hart, 1907:256 (Illinois). – **As *Bicyrtes capnoptera***: Mickel, 1917:286 (Nebraska); J. Parker, 1917:72 (new generic assignment, in revision of North American Bembicini); Mickel, 1918b:439 (in catalog of Nebraskan Sphecidae); J. Parker, 1929:177 (in revision of Stizini and Bembicini); Brimley, 1938:448 (North Carolina: Beaufort, Bogue, Southern Pines); Lohrmann, 1939:133 (relationship to *Bicyrtes annulatus*, *B. mesillensis*, and *B. tristis*); Burks in Muesebeck, Krombein, and Townes, 1951:997 (in catalog of North American Hymenoptera); Dreisbach, 1951:105 (in key to *Bicyrtes* of Michigan); Evans and Linsley, 1960:32 (regular member of sleeping aggregation at Southwest Research Station, Arizona); Linsley, 1962:157 (sleeping aggregations); Evans, 1966d:171 (sleeping aggregations, prey); R. Bohart and Horning, 1971:21 (in revision of California Bembicini); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); Krombein, 1979b:1704 (in catalog of North American Hymenoptera, nesting sites, prey); Porter, 1980:282 (Mexico, Texas); Rust, Hanks, and Bechtel, 1983:406 (Nevada: Churchill County: Sand Mountain; as *capnopteris*); Dollfuss, 1989:8 (lectotype in NHMW); Ahlstrom, 1995:113 (in checklist of insects of North Carolina); R. Bohart, 1996b:144 (in worldwide revision of *Bicyrtes*); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae). – **As *Bicyrtes capnopterus***: Amarante, 2002:9 (in catalog of Neotropical Crabronidae) 2005a:9 (correction to his 2002 catalog).

Bembidula capnoptera var. *mesillensis* Cockerell, 1899a:142, ♂. Holotype or syntypes: ♂, USA: New Mexico: Las Cruces (USNM). Synonymized with *Bicyrtes capnopterus* by R. Bohart, 1970a:205. – Ashmead, 1899d:239 (in checklist of North American Crabronidae). – **As *Bembidula mesillensis***: Cockerell, 1899:255 (new status, description of ♀). – **As *Bicyrtes mesillensis***: J. Parker, 1917:73 (new generic assignment, in revision of North American Bembicini), 1929:178 (in revision of Stizini and Bembicini); Lohrmann, 1939:133 (relationship to *Bicyrtes annula-*

tus, *B. capnopterus*, and *B. tristis*); Burks in Muesebeck, Krombein, and Townes, 1951:997 (in catalog of North American Hymenoptera).

Bicyrtes annulatus J. Parker, 1917:67, ♀, ♂ (as *annulata*, incorrect original termination). Holotype: ♀, USA: Arizona: Oak Creek Canyon (Kansas Univ.), see Cockerell, 1918:60. Synonymized with *Bicyrtes capnopterus* by R. Bohart, 1970a:205. – J. Parker, 1929:174 (in revision of Stizini and Bembicini); Lohrmann, 1939:133 (relationship to *Bicyrtes capnopterus*, *mesillensis*, and *tristis*), 1948:455 (is a mother species of *Bicyrtes capnopterus*, *B. mesillensis*, and *B. tristis*); Burks in Muesebeck, Krombein, and Townes, 1951:997 (in catalog of North American Hymenoptera); LaBerge, 1956:526 (holotype in Snow Entomological Museum).

Bicyrtes tristis C. Fox, 1923b:435, ♂. Holotype: ♂, Mexico: Baja California Sur: La Paz (CAS). Synonymized with *Bicyrtes capnopterus* by R. Bohart, 1970a:206. – J. Parker, 1929:177 (in revision of Stizini and Bembicini); Lohrmann, 1939:133 (relationship to *Bicyrtes annulatus*, *B. capnopterus*, and *B. mesillensis*).

As *Bembidula parata*: Hartman, 1905:36 (Texas, nesting habits), corrected to *Bicyrtes capnopterus* by J. Parker, 1917:134. – As ***Bicyrtes parata***: Evans, 1966d:170 (summary of Hartman's observation), present correction based on J. Parker, 1917:134.

7. *chilicola* R. Bohart

Bicyrtes chilicola R. Bohart, 1996b:144, ♀, ♂. Holotype: ♂, Chile: Arica: Valle de Azapa in Tarapacá (FSCA). – Amarante, 2002:9 (in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:6 (in checklist of Crabronidae of Peru).

8. *cingulatus* (Burmeister)

Bembidula cingulata Burmeister, 1874:125, ♂. Holotype: ♂, Argentina: Cordoba: Cordoba (MACN). – Handlirsch, 1889a:479 (in revision of world Bembicinae); Dalla Torre, 1897:495 (in catalog of world Sphecidae); Schrottky, 1903b:176 (in checklist of Hymenoptera of Argentina, Paraguay, and Uruguay); Jörgensen, 1912:290 (Argentina: Mendoza Province); Schrottky, 1913a:232 (Argentina). – As ***Bicyrtes cingulata***: Lohrmann, 1939:135 (relationship to *Bicyrtes angulatus* and *B. micans*); Willink, 1947:561 (in revision of Bembicini of Argentina), 1948b:322 (study of type material); Fritz, 1958:54 (corrections to earlier descriptions); Evans and Matthews, 1974:131 (nesting habits); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); Nascimento and Overal, 1980:4 (Argentina); R. Bohart, 1996b:145 (in worldwide revision of *Bicyrtes*). – As ***Bicyrtes cingulatus***: Amarante, 2002:9 (in catalog of Neotropical Crabronidae); Evans and O'Neil, 2007:120 (summary of information on nesting habits); Trad and Silvestre, 2017:4 (Brazil: Mato Grosso do Sul); López García, Mazzitelli, Frutos, González, Marcucci, Giusti, Alemanno, del Barrio, Portela, and Debandi, 2019:315 (Argentina: Mendoza: departamento de Tupungato: vineyards in Gualtallary).

Bembidula micans Handlirsch, 1889a:477, ♂. Syntypes: Brazil: Rio Grande do Sul: Pôrto Alegre (ZMHU). Synonymized with *Bicyrtes cingulatus* by R. Bohart, 1996b:145. – Dalla Torre, 1897:495 (in catalog of world Sphecidae); Strand, 1910a:143 (Paraguay). – As ***Bicyrtes micans***: Lohrmann, 1939:135 (relationship to *Bicyrtes angulatus* and *B. cingulatus*). – As ***Bicyrtes cingulata micans***: Willink, 1953:344 (new status); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae).

Bicyrtes cisandinus Pate, 1936c:219, ♀ (as *cisandina*, incorrect original termination). Holotype: ♀, Argentina: La Rioja (Cornell Univ.). Synonymized with *Bicyrtes cingulatus* by Fritz, 1958:54. – Willink, 1947:580 (original description translated into Spanish); Lohrmann, 1948:424 (in checklist of recently described *Bicyrtes*).

9. *colombicus* Fritz

Bicyrtes colombicus Fritz, 1974:13, ♀, ♂ (as *colombica*, incorrect original termination). Holotype: ♂, Colombia: Magdalena: Río Frío (BMNH). – R. Bohart and Menke, 1976:629 (in checklist of world Sphecidae); R. Bohart, 1996b:145 (in worldwide revision of *Bicyrtes*). – As ***Bicyrtes colombicus***: Amarante, 2002:9 (in catalog of Neotropical Crabronidae), 2005a:9 (correction to his 2002 catalog).

10. *diodontus* (Handlirsch)

Bembidula diodontus Handlirsch, 1889a:484, ♂. Holotype: ♂, Mexico: Veracruz: Orizaba (originally de Saussure's coll., now MHNG). – Cameron, 1890a:95 (listed); Dalla Torre, 1897:495 (in catalog of world Sphecidae); Ashmead, 1899d:239 (in checklist of North American Crabronidae, as *diodonta*). – **As *Bicyrtes diodontus***: Lohrmann, 1939:134 (new generic assignment, relationship to *Bicyrtes odontophorus*); R. Bohart, 1970a:205 (diagnostic characters); R. Bohart and Horning, 1971:21 (in key to North American *Bicyrtes*); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); R. Bohart, 1996b:145 (in worldwide revision of *Bicyrtes*); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae). – **As *Bicyrtes diodontus***: Amarante, 2002:9 (in catalog of Neotropical Crabronidae).

Bicyrtes oribates Pate, 1936c:220, ♀, ♂. Holotype: ♂, Mexico: Nayarit: Compostela (ANSP). Synonymized with *Bicyrtes diodontus* by R. Bohart, 1970a:206. – Lohrmann, 1948:424 (in checklist of recently described *Bicyrtes*); H. Allen, 1995:15 (type in ANSP).

11. *discisus* (Taschenberg)

Monedula discisa Taschenberg, 1870:26, ♀, ♂. Syntypes: Argentina: Paraná; Brazil: Rio de Janeiro; Uruguay: Banda Oriental (Halle). – **As *Bembidula discisa***: Burmeister, 1874:124 (revision); E. Lynch Arribálzaga, 1878:157 (Argentina: Tucumán; coloration); Handlirsch, 1889a:485 (in revision of world Bembicinae); Cameron, 1890a:95 (Mexico, Panama; redescription); Handlirsch, 1895:962 (reference to Cameron, 1890); Dalla Torre, 1897:495 (in catalog of world Sphecidae); W. Fox, 1897b:383 (Brazil: Mato Grosso: Chapada de Guimarães); Ashmead, 1899d:239 (in checklist of North American Crabronidae, as *decisa*); Schrottky, 1903b:176 (in checklist of Hymenoptera of Argentina, Paraguay, and Uruguay); Ducke, 1904a:91 (Brazil: Pará State), 1907b:91 (Brazil: Maranhão State: Codo); Schrottky, 1907:273 (first record from Paraguay: Villa Encarnación); Ducke, 1908b:82 (Brazil: Ceará State); Schrottky, 1908:25, 51 (visiting flowers of *Mimosa asperata* L., Fabaceae), 1909b (Argentina: Catamarca); Strand, 1910a:145 (Paraguay); Jörgensen, 1912:290 (Argentina: Mendoza Province); Schrottky, 1913a:232 (Argentina); Bodkin, 1917:122 (British Guyana), 1918:316 (British Guiana: Upper Demerara River); Brèthes, 1918c:348 (preying on Heteroptera). – **As *Bicyrtes discisa***: Bodkin, 1917:123 (new generic assignment, Guyana; cited on previous page in *Bembidula*); J. Parker, 1929:171 (in revision of North American Bembicini); Richards, 1937a:115 (Guyana); Lohrmann, 1939:134 (relationship to *Bicyrtes paraguayanus*); Vesey-Fitzgerald, 1940:38 (nesting habits, preying on Heteroptera); Willink, 1947:574 (in revision of Bembicini of Argentina); Lohrmann, 1948:426 (illustration of head in frontal view, illustration of ocellar scars), 427 (illustration of male tergum VII), 429 (illustration of male sternum VIII), 1948:455 (is a mother species of *Bicyrtes paraguayanus*); Carcavallo and Fritz, 1959:68 (teratological specimen); Evans, 1966d:173 (synopsis of known behavioral information); R. Bohart and Horning, 1971:21 (in key to North American *Bicyrtes*); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); Genise, 1979a:125 (nesting habits); Nascimento and Overal, 1980:4 (Brazil, Peru); Genise, 1981a:96 (nesting habits); Matthews, Saunders, and Matthews, 1981:250 (Costa Rica: Corcovado National Park); Fritz, 1982:14 (Argentina: Corrientes: Ituzaingo); Genise, 1982a:96 (nesting habits); F. Fernández, 1990:24 (Colombia: Meta: Parque Nacional Natural La Macarena); Callan, 1991a:12 (Trinidad), 1991c:135 (nest and prey); Hanson and Menke, 1995:648 (known from Costa Rica, as *dicisa*); Amarante, 1993:20 (northeastern Brazil); Cambra, 1993:16 (Peru: Pakitza at 11°57'S 71°17'W); R. Bohart, 1996b:145 (in worldwide revision of *Bicyrtes*); Martins, Soares, and Yanega, 1998:174 (comparative data on nesting habits); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae); Starr and Hook, 2003:18 (in catalog of Aculeata of Trinidad, West Indies); 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); Trad and Silvestre, 2017:4 (Brazil: Mato Grosso do Sul). – **As *Bicyrtes discisus***: Amarante, 2002:9 (in catalog of Neotropical Crabronidae); Evans and O'Neil, 2007:120 (summary of information on nesting habits); Rasmussen and

Asenjo, 2009:6 (in checklist of Crabronidae of Peru); Buys, 2011a:411 (British Guyana: Georgetown); Buys, 2012b:74 (Brazil: Rio de Janeiro State).

12. *fodiens* (Handlirsch)

Bembidula fodiens Handlirsch, 1889a:499, ♀, ♂. Lectotype: ♂, USA: Texas: Dallas (NHMW), designated by R. Bohart, 1970a:205. – W. Fox, 1895d:354 (in revision of North American Bembicini); Dalla Torre, 1897:495 (in catalog of world Sphecidae); Ashmead, 1899d:239 (in checklist of North American Crabronidae). – **As *Bicyrtes fodiens***: Mickel, 1917:286 (USA: Nebraska); J. Parker, 1917:60 (new generic assignment, in revision of North American Bembicini); Mickel, 1918b:438 (in catalog of Nebraskan Sphecidae); Rau, 1922:28 (USA: Kansas: Lake View); J. Parker, 1929:168 (in revision of Stizini and Bembicini); Brimley, 1938:448 (North Carolina: Raleigh, Willard); Lohrmann, 1939:132 (relationship to *Bicyrtes burmeisteri*); Burks in Muesebeck, Krombein, and Townes, 1951:997 (in catalog of North American Hymenoptera); Dreisbach, 1951:105 (in key to *Bicyrtes* of Michigan); Krombein, 1952a:95 (USA: Virginia: Westmoreland State Park); Chandler, 1966:144 (in revision of Bembicini and Stizini of Indiana); Evans and Lin, 1956b:50 (description of larva); Krombein, 1958f:195 (in supplement to catalog of North American Hymenoptera: description of larva by Evans and Lin, 1956b reported); Evans, 1966d:167 (nest, prey, transport, egg, cocoon, life cycle, parasites); R. Bohart and Horning, 1971:21 (in key to North American *Bicyrtes*); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); Krombein, 1979b:1705 (in catalog of North American Hymenoptera, nesting sites, list of prey); Porter, 1980:282 (Mexico, Texas); Piek and Spanjer, 1986:181 (in list of Sphecidae with known prey); Steiner, 1986:110 (references to publications on nesting habits); Dollfuss, 1989:8 (lectotype in NHMW); Spofford, Kurczewski, and Downes, 1989:256 (reference to publication on nest parasite *Metopia argyrocephala* (Meigen), a miltogrammine fly); Ahlstrom, 1995:113 (in checklist of insects of North Carolina); Hanson and Menke, 1995:648 (known from Central America); R. Bohart, 1996b:145 (in worldwide revision of *Bicyrtes*); Amarante, 2002:9 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae); Horta Vega, Pinson Domínguez, Barrientos Lozano, and Correa Sandoval, 2007: 45 (Mexico: Tamaulipas); Nemkov, 2012b:123 (review of known prey); Horta-Vega, Vanoye-Eligio, García-Gutiérrez, Coronado-Blanco, and Barrientos-Lozano, 2013:382 (Mexico: Tamaulipas: Ciudad Victoria: Cañón del Novillo).

Bembidula burmeisteri Handlirsch, 1889a:500, ♀ (as *Burmeisteri*, incorrect original capitalization). Holotype: ♀, America: no specific locality (Bruxelles). Synonymized with *Bicyrtes fodiens* by R. Bohart in R. Bohart and Menke, 1976:537. – Cameron, 1890a:96 (Mexico, redescription); Handlirsch, 1895:962 (reference to Cameron, 1890a; additional description); Dalla Torre, 1897:494 (in catalog of world Sphecidae); Ashmead, 1899d:239 (in checklist of North American Crabronidae). – **As *Bicyrtes burmeisteri***: J. Parker, 1917:62 (new generic assignment, in revision of North American Bembicini), 1929:168 (in revision of Stizini and Bembicini); Lohrmann, 1939:132 (relationship to *Bicyrtes fodiens*), 1948:455 (is a mother species of *Bicyrtes fodiens*); Burks in Muesebeck, Krombein, and Townes, 1951:997 (in catalog of North American Hymenoptera); Evans, 1966d:173 (prey).

13. *insidiatrix* (Handlirsch)

Bembidula insidiatrix Handlirsch, 1889a:494, ♀, ♂. Lectotype: ♀, USA: Kentucky: no specific locality (NHMW), designated by R. Bohart, 1970a:205. – W. Fox, 1895d:353 (in revision of North American Bembicini); Dalla Torre, 1897:495 (in catalog of world Sphecidae); Ashmead, 1899d:239 (in checklist of North American Crabronidae). – **As *Bicyrtes insidiatrix***: J. Parker, 1917:71 (new generic assignment, in revision of North American Bembicini), 1929:177 (in revision of Stizini and Bembicini); Lohrmann, 1948:455 (closely related to *Bicyrtes annulatus*); Burks in Muesebeck, Krombein, and Townes, 1951:997 (in catalog of North American Hymenoptera); R. Bohart and Horning, 1971:21 (in key to North American *Bicyrtes*); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); Krombein, 1979b:1705 (in catalog of North American Hymenoptera); Dollfuss, 1989:8 (lectotype in NHMW); R. Bohart, 1996b:146 (in worldwide revision of *Bicyrtes*); Deyrup and Eisner, 2003:522 (a Floridian, red-marked species).

14. *lilloi* Willink

Bicyrtes lilloi Willink, 1947:567, ♂. Holotype: ♂, Argentina: Catamarca: Catamarca (Mus. de La Plata). – Fritz, 1958:54 (Bolivia, Argentina); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); R. Bohart, 1996b:146 (in worldwide revision of *Bicyrtes*); Amarante, 2002:9 (in catalog of Neotropical Crabronidae), 2005a:9 (correction to his 2002 catalog); 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); Trad and Silvestre, 2017:4 (Brazil: Mato Grosso do Sul).

15. *mendicus* (Handlirsch)

Bembidula mendica Handlirsch, 1889a:490, ♀. Holotype: ♀, Argentina: Bahía Blanca (MHNG). – Dalla Torre, 1897:495 (in catalog of world Sphecidae); Schrottky, 1903b:1176 (in checklist of Hymenoptera of Argentina, Paraguay, and Uruguay); Brèthes, 1909c:105 (Argentina: Mendoza: Puente del Inca), 1913:127 (description of ♂); Jörgensen, 1912:290 (Argentina: Mendoza Province); Schrottky, 1913a:232 (Argentina). – **As *Bicyrtes mendica*:** J. Parker, 1929:175 (new generic assignment, in revision of Stizini and Bembicini); Willink, 1947:572 (in revision of Bembicini of Argentina); Lohrmann, 1948:424 (in checklist of recently described *Bicyrtes*), 1948:455 (is a mother species of *Bicyrtes discisus*); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); Sielfeld, 1980b:75 (in checklist of Chilean Sphecidae); Ch. Porter, 1987:48 (Chile: Tarapacá Region); R. Bohart, 1996b:146 (in worldwide revision of *Bicyrtes*). – **As *Bicyrtes mendicus*:** Amarante, 2002:9 (in catalog of Neotropical Crabronidae); López García, Mazzitelli, Frutos, González, Marcucci, Giusti, Alemanno, del Barrio, Portela, and Debandi, 2019:315 (Argentina: Mendoza: departamento de Tupungato: vineyards in Gualtallary).

16. *odontophorus* (Handlirsch)

Bembidula odontophora Handlirsch, 1889a:482, ♀, ♂. Lectotype: ♂, Peru: Nauta (NHMW), designated by R. Bohart, 1970a:206. – Handlirsch, 1895:961 (correction of Dahlbom's identification); Dalla Torre, 1897:495 (in catalog of world Sphecidae). – **As *Bicyrtes odontophora*:** J. Parker, 1929:170 (new generic assignment, in revision of Stizini and Bembicini); Richards, 1937a:115 (Guyana); Lohrmann, 1939:134 (relationship to *Bicyrtes diodontus*); Willink, 1947:563 (in revision of Bembicini of Argentina); Lohrmann, 1948:455 (is a mother species of *Bicyrtes diodontus*); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); Fritz, 1982:14 (Argentina: Corrientes: Ituzaingo); Dollfuss, 1989:8 (lectotype in NHMW); R. Bohart, 1996b:146 (in worldwide revision of *Bicyrtes*). – **As *Bicyrtes odontophorus*:** Amarante, 2002:9 (in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:6 (in checklist of Crabronidae of Peru).

17. *paraguayanus* (Strand)

Bembidula paraguayana Strand, 1910a:144, ♂. Holotype: ♂, Paraguay: Sapucay (ZMHU). – Strand, 1927:253 (in list of species described by author). – **As *Bicyrtes paraguayana*:** Lohrmann, 1939:134 (new generic assignment, relationship to *Bicyrtes discisus*), 1948:424 (in checklist of recently described *Bicyrtes*); R. Bohart and Menke, 1976:537 (in checklist of world Sphecidae); R. Bohart, 1996b:146 (in worldwide revision of *Bicyrtes*). – **As *Bicyrtes paraguayanus*:** Amarante, 2002:9 (in catalog of Neotropical Crabronidae).

Bicyrtes oribates patei Willink, 1947:577, ♂. Holotype: ♂, Argentina: Misiones: Puerto Iguazú (IML). Synonymized with *Bicyrtes paraguayana* by Willink, 1953:346.

18. *paranae* R. Bohart

Bicyrtes paranae R. Bohart, 1996b:146, ♀, ♂. Holotype: ♂, Brazil: Paraná: Vila Velha (AMNH). – Amarante, 2005a:5, 9 (in addendum to his 2002 catalog of Neotropical Crabronidae and Sphecidae).

19. *pexa* J. Parker

Bicyrtes pexa J. Parker, 1929:179, ♀. Holotype: ♀, French Guiana: Cayenne (Cornell University, Pittsburgh). – Lohrmann, 1939:132 (relationship to *Bicyrtes variegatus* and *B. quadrifasciatus*); R. Bohart and Menke, 1976:538 (in checklist of world Sphecidae); R. Bohart, 1996b:147 (in worldwide revision of *Bicyrtes*).

20. *quadrifasciatus* (Say)

Monedula quadrifasciata Say, 1824:336, ♀, ♂ (as *4-fasciata*, incorrect original spelling). Syntypes: USA: Pennsylvania: no specific locality (destroyed). – F. Smith, 1856:335 (in catalog of Hymenoptera in British Museum, as *4-fasciata*); Le Conte, 1859a:226 (original description copied); Cresson, 1863:316 (in catalog of North American Hymenoptera), 1873:220 (Texas), 1887:279 (in catalog of North American Hymenoptera); C. Robertson, 1892:107 (visiting flowers of *Pycnanthemum linifolium* (Willdenow) Pursh, Lamiaceae). – **As *Bembidula quadrifasciata***: Handlirsch, 1889a:492 (new generic assignment, in revision of world Bembicinae); W. Fox, 1895d:353 (in revision of North American Bembicini); Dalla Torre, 1897:495 (in catalog of world Sphecidae); Ashmead, 1899d:239 (in checklist of North American Crabronidae); J. Smith, 1900:517 (in list of insects of New Jersey); Hart, 1907:256 (Illinois); Johnson and Rohwer, 1908:376 (Colorado: Fort Collins); J. Smith, 1910:679 (in new list of insects of New Jersey); Rohwer, 1916b:693 (in catalog of Hymenoptera of Connecticut); Washburn, 1919:225 (in list of Hymenoptera of Minnesota); Rohwer in Viereck, 1925:693 (in key to Sphecidae of Connecticut; not yet found in State). – **As *Bicyrtes quadrifasciata***: Mickel, 1917:286 (new generic assignment, Nebraska); J. Parker, 1917:65 (in revision of North American Bembicini), 134 (nesting habits); Mickel, 1918b:439 (in catalog of Nebraskan Sphecidae); Ph. Rau and N. Rau, 1918: 41 (approaching nest, prey, nest structure); Britton, 1920:341 (in checklist of insects of Connecticut); Rau, 1922:28 (Missouri: Island of Chestney); M. Smith, 1923a:238 (nesting habits); J.Ch. Bradley, 1928:1018 (in catalog of New York Sphecidae); J. Parker, 1929:173 (in revision of Stizini and Bembicini); Cartwright, 1931:269 (South Carolina: Jocassee); Peckham, 1934b:260 (aerial transport of prey, a nymph of *Anasa tristis* De Geer, a heteropteran); Brimley, 1938:449 (North Carolina: statewide); Lohrmann, 1939:132 (relationship to *Bicyrtes variegatus* and *B. pexa*); Burks in Muesebeck, Krombein, and Townes, 1951:997 (in catalog of North American Hymenoptera); Dreisbach, 1951:105 (in key to *Bicyrtes* of Michigan), 106 (Michigan: locality records); Krombein, 1953a:287 (prey), 298 (visiting flowers of Virginia creeper), 298 (visiting flowers of *Monarda punctata* L., Lamiaceae and *Cephalanthus occidentalis* L., Rubiaceae), 335 (North Carolina: Kill Devil Hills), 1953b:123 (visiting foliage of *Monarda punctata* L., Lamiaceae), 133 (North Carolina: Kill Devil Hills); Krombein and Evans, 1954:234 (Florida); Krombein, 1955d:152 (nesting habits); Evans and Lin, 1956b:49 (description of larva); Krombein, 1958c:105 (nest, prey), 1958f:195 (in supplement to catalog of North American Hymenoptera: description of larva by Evans and Lin, 1956b, and of nesting habits by Krombein, 1955d, reported, list of prey), 1959e:196 (nest, prey); Evans, 1963c:40 (flying 3-4 feet above ground during orientation flight and when returning to nest); Kurczewski and Kurczewski, 1963:148 (Pennsylvania: Presque Isle State Park); Evans, 1964b:265 (description of larva); Chandler, 1966:144 (in revision of Bembicini and Stizini of Indiana); Evans, 1966d:146 (nest, mating, prey, transport, life cycle, egg, cocoon, parasites); R. Bohart and Horning, 1971:21 (in key to North American *Bicyrtes*); Kurczewski, 1971b:336 (prey record); L. Davis, 1978:216 (North Carolina: Kill Devil Hills, data from Krombein, 1953a); Evans, 1975a:262 (rapid colonizer of new habitats); R. Bohart and Menke, 1976:538 (in checklist of world Sphecidae); Krombein, 1979b:1705 (in catalog of North American Hymenoptera, nesting sites, list of prey); Radović, 1985:66 (sting apparatus analyzed); Piek and Spanjer, 1986:181 (in list of Sphecidae with known prey); Steiner, 1986:110 (references to publications on nesting habits); Spofford, Kurczewski, and Downes, 1989:258, 260 (references to publications on nest parasites *Senotainia rubriventris* Macquart, *Senotainia trilineata* (Wulp), and *Senotainia vigilans* Allen, miltogrammine flies); Ahlstrom, 1995:113 (in checklist of insects of North Carolina); R. Bohart, 1996b:147 (in worldwide revision of *Bicyrtes*); Kurczewski, 1998d:250 (pine barrens in upstate New York); Martins, Soares, and Yanega, 1998:174 (comparative data on nesting habits); Meagher, 2001b:291 (Florida: Alachua County: collected in traps baited with pheromone and synthetic floral volatile compound); Buck, 2004:27 (Canada: in checklist of Crabronidae of Ontario), 31 (distribution within Ontario), 68 (first record from Canada: Ontario: list of localities); Giles and Ascher, 2006:231 (New York: Black Rock Forest Preserve); Biddinger, Surcică, and Joshi, 2017:2 (preying on *Halyomorpha halys* (Stål), Pentatomidae). – **As *Bicyrtes quadrifasciatus***: Evans and O'Neil, 2007:120 (summary of information on nesting habits); Nemkov, 2012b:123 (review of known prey); Buck and Bennett, 2025:208 (in

checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: Ontario, first record from Quebec: no specific locality).

Monedula sallei Guérin-Méneville, 1844:437, ♀ (as *Sallei*, incorrect original capitalization). Holotype or syntypes: ♀, USA: Louisiana: New Orleans (Genova). Synonymized with *Monedula quadrifasciata* by F. Smith, 1856:335. – Guérin-Méneville, 1844:437 (description); Cresson, 1863:316 (in catalog of North American Hymenoptera), 1887:279 (in catalog of North American Hymenoptera); Guiglia, 1948b:180 (type in Genova; as *Salei*).

As *Bembidula variegata*: W. Fox, 1895d:353 (in revision of North American Bembicini), corrected to *Bicyrtes quadrifasciatus* by J. Parker, 1917:65.

21. *simillimus* (F. Smith)

Monedula simillima F. Smith, 1856:333, ♂. Holotype or syntypes: ♂, Brazil: Pará: Santarém (BMNH). – **As *Bembidula simillima***: Handlirsch, 1889a:500 (new generic assignment, original description translated into German); Dalla Torre, 1897:495 (in catalog of world Sphecidae); Ducke, 1904a:91 (Brazil: Pará State; description of ♂). – **As *Bicyrtes simillima***: Lohrmann, 1939:134 (new generic assignment, relationship to *Bicyrtes pullatus* and *B. quinquemaculatus*); Fritz, 1958:53 (as new generic assignment, locality records, variation); R. Bohart and Menke, 1976:538 (in checklist of world Sphecidae); Genise, 1982a:93 (nesting habits); R. Bohart, 1996b:148 (in worldwide revision of *Bicyrtes*); Martins, Soares, and Yanega, 1998:174 (comparative data on nesting habits). – **As *Bicyrtes simillimus***: Amarante, 2002:9 (in catalog of Neotropical Crabronidae); Evans and O'Neil, 2007:121 (summary of information on nesting habits).

Bembex ? defecta Brèthes, 1909b:64, ♀. Holotype: ♀, origin unknown, probably Uruguay: no specific locality (Mus. Montevideo). Synonymized with *Bicyrtes simillimus* by Fritz, 1958:53. – Willink, 1948b:322 (study of type material, redescription); Genise, 1990:26 (type material in Museo de Montevideo).

Bicyrtes quinquemaculatus J. Parker, 1929:175, ♂ (as *quinqueaculata*, incorrect original termination). Holotype: ♂, Bolivia: Carinas Beni (USNM). Synonymized with *Bicyrtes simillimus* by Fritz, 1958:53. – Lohrmann, 1939:134 (relationship to *Bicyrtes pullatus* and *B. simillimus*), 1948:455 (is a mother species of *Bicyrtes simillimus* and *B. pullatus*).

Bicyrtes pullatus J. Parker, 1929:176, ♂ (as *pullata*, incorrect original termination). Holotype: ♂, Brazil: Chapada (Carnegie Museum, Pittsburgh). Synonymized with *Bicyrtes simillimus* by Fritz, 1958:53. – Lohrmann, 1939:134 (relationship to *Bicyrtes quinqueaculatus* and *B. simillimus*).

Bicyrtes orfilai Willink, 1952b:76, ♂ (incorrectly spelled *erfilai*, dedicated to Dr. R.N. Orfila on p. 77). Holotype: ♂, Argentina: Santa Fé: Rosario (MACN). Synonymized with *Bicyrtes simillimus* by Fritz, 1962:61.

22. *spinosa* (Fabricius)

Bembex spinosa Fabricius, 1794:458, sex not stated. Holotype: ♂, American Islands: no specific locality (ZMUC). – Fabricius, 1796:19 (in Index to his Entomologia Systematica, 1794), 1798:260 (redescription), 1799:8 (in Index to his Supplementum, 1798), 1804:225 (redescription); Dahlbom, 1845:XXII (specimens in collection Fabricius); Cresson, 1863:316 (in catalog of North American Hymenoptera). – **As *Monedula spinosa***: Dahlbom, 1845:494 (new generic assignment, in key); F. Smith, 1856:332 (in catalog of Hymenoptera in British Museum); Sichel, 1867:142 (Chile). – **As *Bembidula spinosa***: Handlirsch, 1889a:487 (new generic assignment, in revision of world Bembicinae), 1895:962 (reference to original description); Dalla Torre, 1897:495 (in catalog of world Sphecidae); Ashmead, 1900:306 (in checklist of Caribbean Hymenoptera). – **As *Bicyrtes spinosa***: J. Parker, 1929:175 (new generic assignment, in revision of Stizini and Bembicini); Lohrmann, 1948:455 (is a mother species of *Bicyrtes viduatus* and *B. gracilis*); Wolcott, 1951:846 (Puerto Rico); van der Vecht, 1961a:55 (study of type, additional description); Alayo Dalmau, 1969:19 (Cuba, in revision of Cuban Nyssoninae, now Bembicinae), 1973:188 (in catalog of Cuban Hymenoptera); Medina Gaud and Martorell, 1974:271 (Puerto Rico: island of Caja de Muertos at 17°54'N 66°32'W); Alayo Dalmau, 1976:29 (in checklist of Cuban Sphecidae); R. Bohart and Menke, 1976:538 (in checklist of world Sphecidae); de Zayas, 1981:79 (Cuba); Sánchez and Genaro, 1992a:1 (nest construction),

1992b:150 (Cuba: La Havana: Güinanes); Snelling, 1992:14 (Virgin Islands: islands of Guana and Mona), 1993:18 (British Virgin Islands: Island of Guana), 19 (same: Island of Mona), 1993b:13 (specimens previously recorded by Snelling from Virgin Island can be *Bicyrtes discisus*); Hanson and Menke, 1995:648 (known from Panama); R. Bohart, 1996b:148 (in worldwide revision of *Bicyrtes*); Fernández, Saríol, Vega, Ricardo, González, and Portuondo, 2002:46 (Cuba: Provincia Granma); Portuondo and Fernández, 2004:134 (Cuba: Sierra Maestra and Nipe-Sagua-Baracoa mountains); Snelling, 2005:291 (British Virgin Islands: Island of Guana); Genaro, 2006:53 (in checklist of Cuban Sphecidae and Crabronidae; other areas: Cuba: Isla de la Juventud, Hispaniola, Island of Mona, Puerto Rico, Saint Thomas, Island of Guana, Panama, Ecuador). – **As *Bicyrtes spinosus***: Amarante, 2002:9 (in catalog of Neotropical Crabronidae); Evans and O’Neil, 2007:121 (summary of information on nesting habits); Perez-Gelabert, 2008:240 (in list of arthropods of island of Hispaniola).

23. *tricoloratus* J. Parker

Bicyrtes tricoloratus J. Parker, 1929:171, ♂ (as *tricolorata*, incorrect original termination). Holotype: ♂, South America: no specific locality (ZMHU). – Willink, 1947:557 (in revision of Bembicini of Argentina), 1952a:167 (description of ♀); R. Bohart and Menke, 1976:538 (in checklist of world Sphecidae); Fritz, 1982:14 (Argentina: Corrientes: Ituzaingo); R. Bohart, 1996b:148 (in worldwide revision of *Bicyrtes*). – **As *Bicyrtes tricoloratus***: Amarante, 2002:9 (in catalog of Neotropical Crabronidae).

Bicyrtes solus J. Parker, 1929:180, ♀ (as *sola*, incorrect original termination). Holotype: ♀, Brazil: Chapada (CMP). Synonymized with *Bicyrtes tricoloratus* by Lohrmann, 1948:456, and by Willink, 1953:345.

24. *variegatus* (Olivier)

Bembex variegata Olivier, 1789:292, sex not stated. Holotype: French Guyana: Cayenne (lost). – **As *Bembidula variegata***: Handlirsch, 1889a:488 (new generic assignment, in revision of world Bembicinae); Cameron, 1890a:96 (Mexico, redescription); W. Fox, 1894c:104 (Mexico: Baja California); nec W. Fox, 1895d:353 (= *Bicyrtes paratus*); Handlirsch, 1895:962 (reference to Cameron, 1890a); Dalla Torre, 1897:496 (in catalog of world Sphecidae); W. Fox, 1897b:383 (Brazil: Mato Grosso: Chapada de Guimaraes); Ashmead, 1899d:239 (in checklist of North American Crabronidae); Cockerell, 1899a:142 (New Mexico); Ashmead, 1900:224 (Lesser Antilles: Saint Vincent Island), 305 (in checklist of Caribbean Hymenoptera); Ducke, 1904a:91 (Brazil: Pará State); Ducke, 1908b:83 (Brazil: Ceará State); Brèthes, 1910b:145 (Chile); Strand, 1910a:142 (Paraguay); Schrottky, 1913a:232 (Paraguay); Bodkin, 1917:122 (Guyana), 1918:316 (British Guiana: Upper Demerara River); Poulton, 1918:xxxviii (Brazil, prey: immature Pentatomidae); Jaffuel and Pirion, 1926:377 (Chile: valle de Marga Marga); Janvier, 1928:119 (nesting habits); Gazulla and Ruiz Pereira, 1929:300 (Chile: Hacienda de "Las Mercedes"); Ruíz Pereira, 1937:164 (Chile: Coquimbo: valle del Choapa); Bischoff and von Schulthess, 1937:169 (Argentina: San José); Ruiz Pereira, 1937:164 (Chile: Coquimbo Province); Fraga, 1938:200 (Chile: Hacienda Mauro); Gutiérrez, 1940:34 (Chile: Río Blanco); Piek and Spanjer, 1986:181 (in list of Sphecidae with known prey). – **As *Epibembex variegata***: Burks in Muesebeck, Krombein, and Townes, 1951:1000 (new generic assignment, in catalog of North American Hymenoptera). – **As *Bicyrtes variegata***: Campos, 1922:65 (new generic assignment, Ecuador: Posorja); C. Fox, 1923b:435 (Mexico: Baja California); J. Parker, 1929:174 (in revision of Stizini and Bembicini); Richards, 1937a:115 (Guyana); Lohrmann, 1939:132 (relationship to *Bicyrtes quadrifasciatus* and *B. pexa*); Willink, 1947:569 (in revision of Bembicini of Argentina); Lohrmann, 1948:455 (is a mother species of *Bicyrtes quadrifasciata*); Callan, 1954:23 (Venezuela: Paria Peninsula: Cristóbal Colón); Vesey-FitzGerald, 1956a:286 (Trinidad: Guayaguayare, list of prey); Fritz, 1958:54 (prey: a hemipteran nymph); 1962:61 (belongs in *Bicyrtes*, not in *Bembex*); Evans, 1966d:173 (synopsis of known behavioral information); R. Bohart and Horning, 1971:21 (in key to North American *Bicyrtes*); Pérez D’Angello, Rojas A., and Gaultier A., 1971:116 (wing venation and cells); Zapata, 1974:37 (Chile: Lampa near Santiago); R. Bohart and Menke, 1976:538 (in checklist of world Sphecidae); Evans, 1977a:318 (Baja California Sur); Genise, 1979a:123 (nesting habits); Krombein, 1979b:1705 (in catalog of North American Hymenoptera); Nascimento and Overal, 1980:4 (Brazil); Ch. Porter, 1980:282 (Texas); Sielfeld,

- 1980b:75 (in checklist of Chilean Sphecidae); Fritz, 1982:14 (Argentina: Corrientes: Ituzaingo); Radović, 1985:66 (sting apparatus analyzed); Steiner, 1986:110 (references to publications on nesting habits); Raymond, 1989:306 (French Guyana, Martinique); Martin and Martin, 1990:71 (nesting habits; Mexico: Quintana Roo State); Callan, 1991a:12 (Trinidad), 1991c:135 (nest and prey); Larsson, 1992:1 (Galapagos Islands); Amarante, 1993:20 (north-eastern Brazil); Cambra, 1993:16 (Peru: Pakitza at 11°57'S, 71°17'W); Hanson and Menke, 1995:648 (known from Costa Rica, as *dicisa*); R. Bohart, 1996b:148 (in worldwide revision of *Bicyrtes*); Martins, Soares, and Yañega, 1998:174 (comparative data on nesting habits); Braet, Cerda, and Fretey, 2000:8 (French Guiana); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae); Ohl and Linde, 2003:150 (number of ovarioles); Starr and Hook, 2003:18 (West Indies: in catalog of Aculeata of Trinidad); Horta Vega, Pinson Domínguez, Barrientos Lozano, and Correa Sandoval, 2007: 45 (Mexico: Tamaulipas); Chiappa, 2012:9 (Chile: Región de Valparaíso: no specific locality); 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). – **As *Bicyrtes variegatus***: Amarante, 2002:9 (in catalog of Neotropical Crabronidae); Evans and O'Neil, 2007:122 (summary of information on nesting habits); Rasmussen and Asenjo, 2009:6 (in checklist of Crabronidae of Peru); Buys, 2012b:74 (Brazil: Rio de Janeiro State); Guimarães, Buys, Vivallo, Guimarães Júnior, Storti Rodrigues, Guimarães, dos Santos Seppa, and de Carvalho, 2014:80 (Brazil: Rio de Janeiro: Ilha de Marambaia); Trad and Silvestre, 2017:4 (Brazil: Mato Grosso do Sul); Buys and Trad, 2021:206 (description of cocoon).
- Monedula dissecta* Dahlbom, 1844:186, ♀. Holotype: ♀, South America: no specific locality (Lund). Synonymized with *Bembidula variegata* by Handlirsch, 1889a:488. – Dahlbom, 1845:494 (in key to world *Monedula*); F. Smith, 1856:333 (Guyana: Demerara); Cresson, 1865a:144 (Cuba, redescription); Ashmead, 1900:306 (in checklist of Caribbean Hymenoptera); not listed by Bohart and Menke, 1976; Casolari and Casolari Moreno, 1980:114 (specimens in M. Spinola collection, Torino); Pagliano, 2011a:118 (specimens in M. Spinola collection, Torino, are *Bicyrtes variegata*); Klein, 2025:130 (Leeward Antilles: Bonaire Island).
- Monedula sericea* Spinola, 1851a:315, ♀, ♂. Syntypes: Chile: no specific locality (Torino). Synonymized with *Bembidula variegata* by Handlirsch, 1889a:488. – F. Smith, 1856:334 (in catalog of Hymenoptera in British Museum). – **As *Dumonela sericea***: Reed, 1894:609 (new generic assignment, type of *Dumonela*, in revision of aculeate wasps of Chile); Casolari and Casolari Moreno, 1980:114 (specimens in M. Spinola collection).
- Bembex guiana* Cameron, 1912a:431, ♀. Holotype or syntypes: ♀, Guyana: Demerara: no specific locality (BMNH). Synonymized with *Bicyrtes variegatus* by R. Bohart in R. Bohart and Menke, 1976:538.

25. *venezuelae* R. Bohart

Bicyrtes venezuelae R. Bohart, 1996b:148, ♀, ♂. Holotype: ♂, Venezuela: Aragua: Puerto de Cata (UCD). – Amarante, 2002:9 (in catalog of Neotropical Crabronidae).

26. *ventralis* (Say)

Monedula ventralis Say, 1824:336, ♂. Holotype: ♂, USA: Pennsylvania: no specific locality (originally W. Wood collection, now destroyed). – F. Smith, 1856:335 (in catalog of Hymenoptera in British Museum); Cresson, 1863:316 (in catalog of North American Hymenoptera), 1865b:472 (specimen in ANSP collection), 1872:220 (Texas; color variation), 1876:208 (Utah: Spring Lake); Patton, 1879b:362 (northwestern Kansas); Snow, 1881:96 (in checklist of Hymenoptera of Kansas: Wallace County: no specific locality); Provancher, 1882:46 and 1883b:629 (in revision of Canadian Hymenoptera); Cresson, 1887:279 (in catalog of North American Hymenoptera); Ashmead, 1890:33 (in checklist of Hymenoptera of Colorado); C. Robertson, 1892:107 (visiting flowers of *Pycnanthemum linifolium* (Wildenow) Pursh, Lamiaceae), Bridwell, 1899:209 (Kansas: no specific locality). – **As *Bembidula ventralis***: Handlirsch, 1889a:495 (new generic assignment, in revision of world Bembicinae); C. Robertson, 1894:473 (visiting flowers of *Coreopsis aristosa* Michx., Asteraceae), 475 (visiting flowers of *Helenium autumnale* Linnaeus, Asteraceae); W. Fox, 1895d:353 (in revision of North American Bembicini); Dalla Torre, 1897:496 (in catalog of world Sphecidae); J. Smith, 1900:517 (in list of insects of New Jersey); Harrington, 1902:221 (Canada:

- Ontario: Ottawa); Cameron, 1908c:237 (New Mexico); Johnson and Rohwer, 1908:376 (Colorado: Cope); H. Smith, 1908b:387 (in revision of Nebraskan Sphecidae); Rohwer, 1909b:245 (Colorado: Boulder County); J. Smith, 1910:679 (in new list of insects of New Jersey); Broomley, 1914:197 (prey of asilid *Deromyia umbrina* Loew at Southbridge, Massachusetts); Rohwer, 1916b:693 (in catalog of Hymenoptera of Connecticut); Washburn, 1919:225 (in list of Hymenoptera of Minnesota); Rohwer in Viereck, 1925:693 (in key to Sphecidae of Connecticut). – **As *Microbembex ventralis***: Snow, 1906:134 (new generic assignment, Arizona). – **As *Stictia ventralis***: Faull, 1913:384 (new generic assignment, Canada: Toronto region). – **As *Bicyrtes ventralis***: Mickel, 1917:286 (new generic assignment, Nebraska); J. Parker, 1917:62 (new generic assignment, in revision of North American Bembicini), 132 (nesting habits); Stevens, 1917:422 (North Dakota); Mickel, 1918b:438 (in catalog of Nebraskan Sphecidae); J.Ch. Bradley, 1928:1018 (in catalog of New York Sphecidae); J. Parker, 1929:169 (in revision of Stizini and Bembicini); Peckham, 1934b:260 (Missouri: Kimmiswick area); Brimley, 1938:449 (North Carolina: New Hanover and Wake counties westward); Lohrmann, 1939:131 (relationship to *Bicyrtes parata*); Strickland, 1947: 130 (Canada: Alberta: Edmonton); Burks in Muesebeck, Krombein, and Townes, 1951:997 (in catalog of North American Hymenoptera); Dreisbach, 1951:105 (in key to *Bicyrtes* of Michigan), 106 (Michigan: locality records); Evans and Lin, 1956b:50 (description of larva); Krombein, 1958f:195 (in supplement to catalog of North American Hymenoptera: description of larva by Evans and Lin, 1956b reported); Evans, 1963c:37 (habitat, nesting habits), fig. 4 after p. 38 (photograph of female with prey); Kurczewski and Kurczewski, 1963:148 (Pennsylvania: Presque Isle State Park); Chandler, 1966:144 (in revision of Bembicini and Stizini of Indiana); Evans, 1966d:160 (nesting habits); G. Bohart, Nye, and Hawthorn, 1970:48 (Utah: Logan, onion pollinator); R. Bohart and Horning, 1971:23 (in revision of California Bembicini); R. Bohart and Menke, 1976:538 (in checklist of world Sphecidae); Krombein, 1979b:1706 (in catalog of North American Hymenoptera, nesting sites, list of prey); Porter, 1980:283 (Mexico); Finnamore, 1982:228 (in Sphecid Fauna of southern Quebec); Rust, Hanks, and Bechtel, 1983:406 (Nevada: Churchill County: Sand Mountain); Piek and Spanjer, 1986:181 (in list of Sphecidae with known prey); Spofford, Kurczewski, and Downes, 1989:258, 260, 261 (references to publications on nest parasites *Senotainia trilineata* (Wulp) and *Senotainia vigilans* Allen, miltogrammine flies, and undetermined Miltogrammini); Kurczewski and Acciavatti, 1990:61 (New York: Cayuga County); Spofford and Kurczewski, 1990:748, 749 (nest parasites: *Senotainia trilineata* (Van der Wulp), *Senotainia vigilans* Allen, and unknown species of Miltogrammini, Sarcophagidae), 1992:999 (species of miltogrammine parasites listed), 1002 (counter-cleptoparasitic behavior: freeze-stop and face-off, diversionary flight), 1005 (post-larvipositional counter-cleptoparasitic behavior: abandon prey, larval feeding on maggot); Ahlstrom, 1995:113 (in checklist of insects of North Carolina); R. Bohart, 1996b:149 (in worldwide revision of *Bicyrtes*); Kurczewski, 1998d:250 (pine barrens in upstate New York); Weissmann and Kondratieff, 1999:78 (Colorado: Great Sand Dunes National Monument); Amarante, 2002:9 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae); Buck, 2004:27 (Canada: in checklist of Crabronidae of Ontario); Evans and O'Neil, 2007:122 (summary of information on nesting habits); Ratzlaff, 2016:23 (Canada: British Columbia, after Krombein, 1979 and Buck, 2004); Buck and Bennett, 2025:208 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: Alberta, British Columbia, Ontario, Quebec, Saskatchewan, first records from Manitoba and New Brunswick: no specific locality).
- Bicyrtes servillii* Lepeletier de Saint Fargeau, 1845:53, sex not stated (as *Servillii*, incorrect original capitalization). Holotype or syntypes: USA: Pennsylvania: Philadelphia (M. Spinola collection, Torino). Synonymized with *Bicyrtes ventralis* by R. Bohart and Menke, 1976:538. – Cresson, 1862:234 (in catalog of North American Hymenoptera); Bradley, 1957:44 (type in Turin; as *servillei*); Casolari and Casolari Moreno, 1980:116 (specimens in M. Spinola collection, Torino); Pagliano, 2011a:135 (specimens in M. Spinola collection, Torino, are ? *Bicyrtes ventralis*). – **As *Larra servillii***: F. Smith, 1856:350 (new generic assignment, in catalog of Hymenoptera in British Museum); Packard, 1867:44 (listed). – **As *Stizus servillii***: Packard, 1879c:346 (new generic assignment); Cresson, 1887:278 (in catalog of North American Hymenoptera); Handlirsch, 1892:65 (original description translated into German);

W. Fox, 1895b:268 (in revision of North American Stizini, unknown to author); Dalla Torre, 1897:530 (in catalog of world Sphecidae); Ashmead, 1899d:347 (in checklist of North American Crabronidae, as *servillei*).

Monedula parata Provancher, 1888:416, ♀. Lectotype: ♀, USA: California: Los Angeles (Laval Univ.), designated by Gahan and Rohwer, 1918:103. Synonymized with *Bicyrtes ventralis* by R. Bohart, 1970a:206. – **As *Bembidula parata***: W. Fox, 1895d:353 (new generic assignment, in revision of North American Bembicini); Handlirsch, 1895:964 (original description translated into German); Dalla Torre, 1897:495 (in catalog of world Sphecidae); Ashmead, 1899d:239 (in checklist of North American Crabronidae); nec Hartman, 1905:36 (= *Bicyrtes capnopterus*). – **As *Bicyrtes parata***: J. Parker, 1917:64 (new generic assignment, in revision of North American Bembicini), 1929:169 (in revision of Stizini and Bembicini); Lohrmann, 1939:131 (relationship to *Bicyrtes ventralis*), 1948:455 (is a mother species of *Bicyrtes ventralis*); Burks in Muesebeck, Krombein, and Townes, 1951:997 (in catalog of North American Hymenoptera); nec Evans, 1966d:170 (= *Bicyrtes capnopterus*).

Bembidula meliloti Rohwer in Johnson and Rohwer, 1908:376, ♂. Holotype or syntypes: ♂, USA: New Mexico: Pecos (USNM). Synonymized with *Bicyrtes paratus* by J. Parker, 1917:64.

27. *viduatus* (Handlirsch)

Bembidula viduata Handlirsch, 1889a:491, ♀. Lectotype: ♀, Mexico: Huastec (MHNG), designated by R. Bohart, 1970a:206. – Cameron, 1890a:96 (listed); Ashmead, 1899d:239 (in checklist of North American Crabronidae). – **As *Bicyrtes viduata***: J. Parker, 1917:69 (new generic assignment, in revision of North American Bembicini), 1929:172 (in revision of Stizini and Bembicini); Burks in Muesebeck, Krombein, and Townes, 1951:997 (in catalog of North American Hymenoptera); Chandler, 1966:144 (in revision of Bembicini and Stizini of Indiana); R. Bohart and Horning, 1971:21 (in key to North American *Bicyrtes*); Alcock and Gamboa, 1975b:160 (nesting habits); R. Bohart and Menke, 1976:538 (in checklist of world Sphecidae); Krombein, 1979b:1706 (in catalog of North American Hymenoptera); Porter, 1980:283 (Mexico, Texas); R. Bohart, 1996b:149 (in worldwide revision of *Bicyrtes*); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae); Horta Vega, Pinson Domínguez, Barrientos Lozano, and Correa Sandoval, 2007: 45 (Mexico: Tamaulipas); Horta-Vega, Vanoye-Eligio, García-Gutiérrez, Coronado-Blanco, and Barrientos-Lozano, 2013:382 (Mexico: Tamaulipas: Ciudad Victoria: Cañón del Novillo). – **As *Bicyrtes viduatus***: Amarante, 2002:9 (in catalog of Neotropical Crabronidae); Evans and O'Neil, 2007:123 (summary of information on nesting habits).

Bicyrtes gracilis J. Parker, 1917:68, ♂. Holotype: ♂, USA: Arizona: Santa Rita Mountains (Kansas Univ.). Synonymized with *Bicyrtes viduatus* by R. Bohart, 1970a:205. – Cockerell, 1918:60 (altitude of type locality); J. Parker, 1929:175 (in revision of Stizini and Bembicini); Burks in Muesebeck, Krombein, and Townes, 1951:997 (in catalog of North American Hymenoptera); LaBerge, 1956:526 (holotype in Snow Entomological Museum).

sp.

Maes, 1989:96 (in catalog of Nicaraguan Sphecidae); Skevington et al., 2001:127 (Canada: Ontario: Lambton County); Ruíz Cancino, Coronado Blanco, and Horta Vega, 2005:170 (Mexico: recorded from Tamaulipas State); Cope, Campbell, Grodsky, and Ellis, 2019:6 (Florida: collected in emergence traps).

SPECIES DESCRIBED IN *BEMBIDULA* AND TRANSFERRED TO *BEMBEVINUS*

ornaticauda Cameron, 1912 = *Bembecinus*