

Last updated: 26 April 2025

STICTIELLA

Stictiella J. Parker, 1917:21. Type species: *Monedula formosa* Cresson, 1872, by original designation.

Revision: R. Bohart and Gillaspay, 1985:22 (California species, key to all species).

Biology: Evans, 2002a:5 (six species are known to use Lepidoptera as prey)

1. *boharti* Gillaspay

Stictiella boharti Gillaspay in Bohart and Gillaspay, 1985:25, ♀, ♂. Holotype: ♂, California, Riverside County: Anza (UCD). – R. Bohart and Gillaspay, 1985:24 and 25 (in key to world *Stictiella*).

2. *callista* J. Parker

Stictiella callista J. Parker, 1917:34, ♀, ♂. Holotype: ♂, USA: Arizona or New Mexico: no specific locality, but New Mexico: Mesilla Park (USNM), see Cockerell, 1918:60. – J. Parker, 1929:41 (in revision of Stizini and Bembicini); Burks in Muesebeck, Krombein, and Townes, 1951:995 (in catalog of North American Hymenoptera); LaBerge, 1956:528 (paratype in Snow Entomological Museum); Gillaspay, Evans, and Lin, 1962:562 (prey: adult Lepidoptera); Evans, 1966d:183 (known prey discussed); Alcock and Gamboa, 1975b:160 (nesting habits); R. Bohart and Menke, 1976:551 (in checklist of world Sphecidae); Krombein, 1979b:1716 (in catalog of North American Hymenoptera); R. Bohart and Gillaspay, 1985:24 and 25 (in key to world *Stictiella*); Radović, 1985:66 (sting apparatus analyzed); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae); Evans and O'Neil, 2007:148 (summary of information on nesting habits).

3. *corniculata* Mickel

Stictiella corniculata Mickel, 1918:332, ♂. Holotype: ♂, Wyoming: Worland (UNL). – Lohrmann, 1948:457 (in review of *Stictiella*); Burks in Muesebeck, Krombein, and Townes, 1951:995 (in catalog of North American Hymenoptera); Muma, 1952:23 (type in UNL); Gillaspay, 1963d:252 (not included in J. Parker, 1929; diagnostic characters); R. Bohart and Menke, 1976:551 (in checklist of world Sphecidae); Krombein, 1979b:1716 (in catalog of North American Hymenoptera); Rust, Hanks, and Bechtel, 1983:406 (Nevada: Churchill County: Sand Mountain); R. Bohart and Gillaspay, 1985:24 and 25 (in key to world *Stictiella*), 27 (in revision of Californian *Stictiella*).

4. *emarginata* (Cresson)

Monedula emarginata Cresson, 1865b:468, ♀, ♂. Lectotype: ♀, USA: Colorado: no specific locality (ANSP), designated by Cresson, 1916:97. – Patton, 1879d:369 (USA: central western Kansas; additional description); Cresson, 1887:278 (in catalog of North American Hymenoptera); Ashmead, 1890:33 (in checklist of Hymenoptera of Colorado); Handlirsch, 1890:76 (original description translated into German); W. Fox, 1895d:368 (in revision of North American Bembicini); Dalla Torre, 1897:497 (in catalog of world Sphecidae); Ashmead, 1899d:240 (in checklist of North American Crabronidae); Bridwell, 1899:209 (Kansas: no specific locality); H. Smith, 1908b:383 (in revision of Nebraskan Sphecidae). – **As *Stictia emarginata***: Johnson and Rohwer, 1908:380 (new generic assignment, Colorado: Livermore). – **As *Stictiella emarginata***: Mickel, 1917:285 (new generic assignment, USA: Nebraska); J. Parker, 1917:38 (in revision of Bembicini of America north of Mexico); Stevens, 1917:422 (North Dakota); Mickel, 1918b:437 (in catalog of Nebraskan Sphecidae); Carter, 1925:133 (Canada: Alberta); J.Ch. Bradley, 1928:1018 (in catalog of New York Sphecidae); J. Parker, 1929:41 (in revision of Stizini and Bembicini); Strickland, 1947:130 (Canada: Alberta: Lethbridge, Medicine Hat); Lohrmann, 1948:457 (in review of *Stictiella*); Burks in Muesebeck, Krombein, and Townes, 1951:995 (in catalog of North American Hymenoptera); Dreisbach, 1951:104, 105 (in key to *Stictiella* of Michigan), 107 (Michigan: locality records); Gillaspay, Evans, and Lin,

1962:562 (prey: adult Noctuidae); Chandler, 1966:143 (may occur in Indiana); Evans, 1966d:183 (known prey discussed), 1970:494 (Wyoming: Jackson Hole); Horning and Barr, 1970:105 (USA: Idaho: Craters of the Moon National Monument); R. Bohart and Menke, 1976:551 (in checklist of world Sphecidae); Krombein, 1979b:1716 (in catalog of North American Hymenoptera); R. Bohart and Gillasp, 1985:23 and 24 (in key to world *Stictiella*), 27 (in revision of Californian *Stictiella*); O'Brien, 1989:103 (first record from Michigan); 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), 31 (distribution within Ontario), 69 (first records from Ontario and Saskatchewan: list of localities); Kurczewski and Boyle, 2006:6 (nesting behavior, ecology, geographic distribution); Evans and O'Neil, 2007:148 (summary of information on nesting habits); Ratzlaff, 2016:24 (Canada: British Columbia: from Krombein, 1979 and Buck, 2004); Buck and Bennett, 2025:209 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: Alberta, British Columbia, Ontario, Saskatchewan, first record from Manitoba: no specific locality).

Monedula mamillata Handlirsch, 1890:146, ♀, ♂. Lectotype: ♂, USA: Georgia: no specific locality (MHNG), designated by R. Bohart, 1970a:206. Synonymized with *Stictiella emarginata* by J. Parker, 1917:38. – Dalla Torre, 1897:498 (in catalog of world Sphecidae, as *mammillata*). – Nec W. Fox, 1893d:10 (= *Glenostictia scitula*).

Stictiella fairchildi R. Bohart, 1982:593. ♂. Holotype: ♂, Florida: Gainesville: Austin Cary Forest (UCD). Synonymized with *Stictiella emarginata* by Bohart and Gillasp, 1985:27.

5. *evansi* Gillasp

Stictiella evansi Gillasp, 1961:169, ♀, ♂. Holotype: ♀, Mexico: Sinaloa: Mazatlán (USNM). – Gillasp, Evans, and Lin, 1962:562 (nesting habits); Evans, 1966d:181, 183 (synopsis of known behavioral information); R. Bohart and Menke, 1976:551 (in checklist of world Sphecidae); R. Bohart and Gillasp, 1985:24 and 25 (in key to world *Stictiella*); Piek and Spanjer, 1986:190 (in list of Sphecidae with known prey); Spofford, Kurczewski, and Downes, 1981:261 (reference to previous publication on nest parasite: undetermined species of Miltogrammini); Amarante, 2002:12 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae).

6. *fergusoni* R. Bohart

Stictiella fergusonii R. Bohart in Bohart and Gillasp, 1985:28, ♀, ♂. Holotype: ♂, California: San Bernardino County: Granite Mountains 20 mi. south of Kelso (UCD). – R. Bohart and Gillasp, 1985:23 and 24 (in key to world *Stictiella*); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae).

7. *flavescens* Gillasp

Stictiella flavescens Gillasp in Bohart and Gillasp, 1985:30, ♀, ♂. Holotype: ♂, California, San Diego County: Scissors Crossing (UCD). – R. Bohart and Gillasp, 1985:23 and 24 (in key to world *Stictiella*); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae).

8. *formosa* (Cresson)

Monedula formosa Cresson, 1873:221, ♀, ♂. Lectotype: ♀, USA: Texas: no specific locality (ANSP), designated by Cresson, 1916:97. – Handlirsch, 1890:140 (as synonym of *Monedula speciosa*); W. Fox, 1895d:366 (as synonym of *Monedula speciosa*); Dalla Torre, 1897:500 (in catalog of world Hymenoptera, as synonym of *Monedula speciosa*). – As *Stictiella formosa*: J. Parker, 1917:27 (new generic assignment, in revision of Bembicini of America north of Mexico), C. Fox, 1923b:431 (Mexico: Sonora: Guaymas); J. Parker, 1929:40 (in revision of Stizini and Bembicini); Burks in Muesebeck, Krombein, and Townes, 1951:996 (in catalog of North American Hymenoptera); Dreisbach, 1951:104, 105 (in key to *Stictiella* of Michigan); Gillasp, Evans, and Lin, 1962:560 (nesting habits); Evans, 1966d:179-183 (synopsis of known behavioral information); R. Bohart and Menke, 1976:551 (in checklist of world Sphecidae); Krombein, 1979b:1716 (in catalog of North American Hymenoptera, nest sites, list of prey); R. Bohart

and Gillasp, 1985:23 and 24 (in key to world *Stictiella*); Piek and Spanjer, 1986:190 (in list of Sphecidae with known prey); Steiner, 1986:111 (references to publications on nesting habits); Spofford, Kurczewski, and Downes, 1989:261 (reference to previous publication on nest parasite: undetermined species of Miltogrammini); Evans and O'Neil, 2007:149 (summary of information on nesting habits, with original observations); Nemkov, 2012b:122, 123 (review of known prey).

As *Monedula speciosa* (corrected to *Stictiella formosa* by J. Parker, 1917:27); Handlirsch, 1890:140 (in revision of world Bembicinae); Ashmead, 1899d:240 (in checklist of North American Crabronidae, as *spinosa*); Cameron, 1908c:236 (description of ♂); Johnson and Rohwer, 1908:380 (Colorado: Lamar, Sterling).

9. *gillaspypi* R. Bohart

Stictiella gillaspypi R. Bohart, 1982:594, ♀, ♂. Holotype: ♂, Mexico: Sonora: Hermosillo (UCD). – R. Bohart and Gillasp, 1985:24 (in key to world *Stictiella*); Amarante, 2002:12 (in catalog of Neotropical Crabronidae).

10. *pulchella* (Cresson)

Monedula pulchella Cresson, 1865b:471, ♀, ♂. Lectotype: ♀, USA: Colorado: no specific locality (ANSP), designated by Cresson, 1916:97. – Cresson, 1887:279 (in catalog of North American Hymenoptera); Ashmead, 1890:33 (in checklist of Hymenoptera of Colorado); Handlirsch, 1890:150 (original description translated into German); W. Fox, 1895d:366 (in revision of North American Bembicini); Dalla Torre, 1897:499 (in catalog of world Sphecidae); Ashmead, 1899d:240 (in checklist of North American Crabronidae); Cockerell, 1899a:142 (New Mexico); H. Smith, 1908b:384 (in revision of Nebraskan Sphecidae). – As *Microbembex pulchella*: Snow, 1906:8 (new generic assignment, Arizona: Oak Creek 20 mi. southwest of Flagstaff). – As *Stictia pulchella*: Johnson and Rohwer, 1908:380 (new generic assignment, "reported from Colorado by Fox, Cresson, and Ashmead"). – As *Stictiella pulchella*: J. Parker, 1917:40 (new generic assignment, in revision of Bembicini of America north of Mexico), 1929:42 (in revision of Stizini and Bembicini); Burks in Muesebeck, Krombein, and Townes, 1951:996 (in catalog of North American Hymenoptera); Evans, 1964b:260 (description of larva), 1966d:179-183 (synopsis of known behavioral records); Hurd and Linsley, 1975:117 (New Mexico: Luna County: Deming; on flowers of *Larrea tridentata* (De Candolle) Coville, Zygophyllaceae); R. Bohart and Menke, 1976:551 (in checklist of world Sphecidae); Krombein, 1979b:1717 (in catalog of North American Hymenoptera, nesting sites, list of prey); R. Bohart and Gillasp, 1985:24 and 25 (in key to world *Stictiella*), 31 (in revision of Californian *Stictiella*); Amarante, 2002:12 (in catalog of Neotropical Crabronidae); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae); Nemkov, 2012b:123 (review of known prey); Buck and Bennett, 2025:209 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: Saskatchewan. First record from Manitoba: no specific locality).

Stictiella melanosterna J. Parker, 1917:30, ♀, ♂. Holotype: ♂, USA: New Mexico: Las Cruces (USNM), see Cockerell, 1918:60. Synonymized with *Stictiella pulchella* by Gillasp, 1963d:252. – J. Parker, 1929:40 (in revision of Stizini and Bembicini); Burks in Muesebeck, Krombein, and Townes, 1951:996 (in catalog of North American Hymenoptera); Gillasp, Evans, and Lin, 1962:562 (nesting habits).

ssp. nubilosa Gillasp

Stictiella nubilosa Gillasp, 1963d:252, ♀, ♂. Holotype: ♀, USNM: California: Los Angeles County: no specific locality (USNM). – R. Bohart and Menke, 1976:551 (in checklist of world Sphecidae); Krombein, 1979b:1716 (in catalog of North American Hymenoptera); Rust, Hanks, and Bechtel, 1983:406 (Nevada: Churchill County: Sand Mountain). – As *Stictiella pulchella nubilosa*: R. Bohart and Gillasp, 1985:31 (new status; in key to world *Stictiella*), 32 (in revision of Californian *Stictiella*).

ssp. plana (W. Fox)

Monedula plana W. Fox, 1895d:367, ♂. Lectotype: ♂, USA: South Dakota: Custer (ANSP), designated by Cresson, 1928:46. – Ashmead, 1899d:240 (in checklist of North American Crabronidae); H. Smith, 1908b:384 (in revision

of Nebraskan Sphecidae); R. Bohart, 1970a:206 (holotype in USNM, information incorrect; as synonym of *Stictiella serrata*). – **As *Stictiella plana***: Mickel, 1917:285 (new generic assignment, Nebraska); J. Parker, 1917:32 (in revision of Bembicini of America north of Mexico); Mickel, 1918b:437 (in catalog of Nebraskan Sphecidae); J. Parker, 1917:32 (new generic assignment, in revision of Bembicini of America north of Mexico), 1929:40 (in revision of Stizini and Bembicini); Burks in Muesebeck, Krombein, and Townes, 1951:996 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:551 (in checklist of world Sphecidae); Krombein, 1979b:1717 (in catalog of North American Hymenoptera); Weissmann and Kondratieff, 1999:78 (Colorado: Great Sand Dunes National Monument). – **As *Stictiella pulchella plana***: R. Bohart and Gillasp, 1985:31 (new status; in key to world *Stictiella*); Evans and O'Neil, 2007:150 (summary of information on nesting habits).

ssp. *serrata* (Handlirsch)

Monedula serrata Handlirsch, 1890:143, ♂. Holotype: ♂, USA: Georgia: no specific locality (MHNG). – W. Fox, 1895d:366 (in revision of North American Bembicini); Dalla Torre, 1897:499 (in catalog of world Sphecidae); Ashmead, 1899d:240 (in checklist of North American Crabronidae). – **As *Stictiella serrata***: J. Parker, 1917:31 (new generic assignment, in revision of Bembicini of America north of Mexico); M. Smith, 1920:81 (in revision of Bembicini of North Carolina); J. Parker, 1929:40 (in revision of Stizini and Bembicini); Brimley, 1938:449 (North Carolina: Aberdeen, Carolina Beach, Laurel Hill, White Lake); Lohrmann, 1948:457 (in review of *Stictiella*); Burks in Muesebeck, Krombein, and Townes, 1951:996 (in catalog of North American Hymenoptera); Dreisbach, 1951:104 (in key to *Stictiella* of Michigan); Krombein and Evans, 1955:233 (Florida); Evans and Lin, 1956b:51 (description of larva); Evans, 1958e:452 (behavioral evolution); Krombein, 1958f:195 (in supplement to catalog of North American Hymenoptera: description of larva by Evans and Lin, 1956b reported); Gillasp, Evans, and Lin, 1962:561 (nest, prey, prey transport, egg, life cycle); Krombein, 1964c:19 (nest, moth prey, transport, life cycle, cocoon); Evans, 1966d:179-183 (synopsis of known behavioral information); R. Bohart, 1970a:207 (study of type); Bohart and Menke, 1976:551 (in checklist of world Sphecidae); Krombein, 1979b:1717 (in catalog of North American Hymenoptera, nesting sites, list of prey); Piek and Spanjer, 1986:190 (in list of Sphecidae with known prey); Spofford, Kurczewski, and Downes, 1989:258 (summary of previous records for nest parasite *Senotainia* sp. aff. *rubriventris* Macquart, a miltoigrammine fly); Ahlstrom, 1995:113 (in checklist of insects of North Carolina); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae); Ardila-Garcia, Umphrey, and Gregory, 2010:339 (genome size dataset). – **As *Stictiella pulchella serrata***: R. Bohart and Gillasp, 1985:31 (new status; in key to world *Stictiella*).

11. *speciosa* (Cresson)

Monedula speciosa Cresson, 1865b:470, ♀. Holotype: ♀, USA: Colorado: no specific locality (ANSP). – Patton, 1879d:361 (northwestern Kansas, description of ♂); Cresson, 1887:279 (in catalog of North American Hymenoptera); Ashmead, 1890:33 (in checklist of Hymenoptera of Colorado); nec Handlirsch, 1890:140 and Cameron, 1908:236 (= *Stictiella formosa*); W. Fox, 1893d:10 (Baja California: El Paraiso), 1894c:104 (Mexico: Baja California), 1895d:366 (in revision of North American Bembicini); Handlirsch, 1895:970 (Baja California: El Paraiso); Dalla Torre, 1897:500 (in catalog of world Sphecidae); Bridwell, 1899:209 (Kansas: no specific locality); Cockerell, 1899a:142 (New Mexico); H. Smith, 1908b:383 (in revision of Nebraskan Sphecidae, part = *Stictiella spinifera*); Cresson, 1916:97 (holotype in ANSP). – **As *Hogardia speciosa***: Pagliano, 2011a:127 (specimens in M. Spinola collection, Torino, are *Stictiella speciosa* and *Stictiella* sp.). – **As *Stictiella speciosa***: Mickel, 1917:285 (new generic assignment, Nebraska); J. Parker, 1917:41 (in revision of Bembicini of America north of Mexico); Mickel, 1918b:437 (in catalog of Nebraskan Sphecidae); J. Parker, 1929:42 (in revision of Stizini and Bembicini); Strickland, 1947: 130 (Canada: Alberta: Medicine Hat); Burks in Muesebeck, Krombein, and Townes, 1951:996 (in catalog of North American Hymenoptera); Dreisbach, 1951:104, 105 (in key to *Stictiella* of Michigan); R. Bohart and Menke, 1976:551 (in checklist of world Sphecidae); Kumar, Lavigne, Lloyd, and Pfadt, 1976:51 (USA: Colorado: Pawnee National Grassland); Krombein, 1979b:1717 (in catalog of North American Hymenop-

tera); Rust, Hanks, and Bechtel, 1983:406 (Nevada: Churchill County: Sand Mountain); R. Bohart and Gillasp, 1985:23 and 24 (in key to world *Stictiella*); Buck and Bennett, 2025:210 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: Alberta, Saskatchewan: no specific locality).

12. *spinifera* (Mickel)

As *Monedula speciosa*: H. Smith, 1908:383, part (Nebraska), corrected to *Stictia spinifera* by Mickel, 1916a:418.

Stictia spinifera Mickel, 1916a:418, ♂. Holotype: ♂, USA: Nebraska: McCook (UNL). – LaBerge, 1956:527 (holotype in Snow Entomological Museum). – As *Stictiella spinifera*: Mickel, 1917:285 (new generic assignment, Nebraska), 1918b:437 (in catalog of Nebraskan Sphecidae); J. Parker, 1929:43 (in revision of Stizini and Bembicini); Strickland, 1947: 130 (Canada: Alberta: Medicine Hat); Burks in Muesebeck, Krombein, and Townes, 1951:996 (listed); Dreisbach, 1951:104, 105 (in key to *Stictiella* of Michigan); Muma, 1952:23 (type in UNL), 28 (paratypes in UNL); R. Bohart and Menke, 1976:551 (in checklist of world Sphecidae); Krombein, 1979b:1717 (in catalog of North American Hymenoptera); Frommer, 1988:96 (California: Riverside County: Deep Canyon).

Stictiella melampous J. Parker, 1917:43, ♂. Holotype: ♂, USA: Kansas: Seward County: no specific locality (Kansas Univ.). Synonymized with *Stictiella spinifera* by Mickel, 1917:285. – Cockerell, 1918:60 (holotype collected on 18 Aug.); LaBerge, 1956:527 (holotype in Snow Entomological Museum).

13. *tuberculata* (W. Fox)

Monedula tuberculata W. Fox, 1895d:366, ♂. Holotype: ♂, USA: Nevada: no specific locality (ANSP). – Ashmead, 1899d:240 (in checklist of North American Crabronidae); Cresson, 1928:46 (holotype in ANSP). – As *Stictiella tuberculata*: J. Parker, 1917:34 (new generic assignment, in revision of Bembicini of America north of Mexico), 1929:41 (in revision of Stizini and Bembicini); Lohrmann, 1948:457 (in review of *Stictiella*); Burks in Muesebeck, Krombein, and Townes, 1951:996 (in catalog of North American Hymenoptera); R. Bohart and Menke, 1976:551 (in checklist of world Sphecidae); Krombein, 1979b:1717 (in catalog of North American Hymenoptera); R. Bohart and Gillasp, 1985:24 and 25 (in key to world *Stictiella*), 33 (in revision of Californian *Stictiella*); G. Scudder, 1994:76 (Canada: in checklist of rare and endangered invertebrates of British Columbia); Ruíz Cancino, Coronado Blanco, Varela Fuente, and Horta Vega, 2002:666 (in checklist of Mexican Sphecidae); Ratzlaff, 2016:24 (Canada: British Columbia: from R. Bohart and Gillasp 1986 and G. Scudder, 1994); Buck and Bennett, 2025:210 (in checklist of Sphecidae *sensu lato* of Canada, Alaska, and Greenland: Canada: British Columbia: no specific locality).

14. *villegasi* R. Bohart

Stictiella villegasi R. Bohart, 1982:596, ♀, ♂. Holotype: ♂, California: Imperial County: Glamis (UCD). – R. Bohart and Gillasp, 1985:23 and 24 (in key to world *Stictiella*), 34 (in revision of Californian *Stictiella*).

sp.

Ruíz Cancino, Coronado Blanco, and Horta Vega, 2005:170 (Mexico: recorded from Tamaulipas State).

SPECIES DESCRIBED OR SUBSEQUENTLY PLACED IN *STICTIELLA* AND LATER TRANSFERRED TO OTHER GENERA

albicerca C. Fox, 1923 = *Glenostictia*

argentata C. Fox, 1923 = *Glenostictia*

bifurcata C. Fox, 1923 = *Glenostictia*

bituberculata C. Fox, 1923 = *Glenostictia*

clypeata Gillasp, 1959 = *Glenostictia*

directa C. Fox, 1923 = *Glenostictia*

divergens J. Parker, 1917 = *Microstictia*

exigua W. Fox, 1895 = *Microstictia femorata* (W. Fox, 1895)

femorata (W. Fox, 1895) = *Microstictia*
megacera J. Parker, 1917 = *Glenostictia*
terlinguae C. Fox, 1928 = *Glenostictia*