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QUEXUA

Quexua Pate, 1942b:55. Type species: *Quexua cashibo* Pate, 1942, by original designation.

Arecuna Pate, 1942a:58. Type species: *Quexua essequibo* Pate, 1942, by original designation.

Revision: Leclercq, 2002a (*Quexua witoto* omitted from the key).

1. *alinella* Leclercq

Quexua alinella Leclercq, 1980b:65, ♀. Holotype: ♀, Brazil: São Paulo (USNM). – Leclercq, 1980b:62 (in key to *Quexua*), 2002a:4 (in new key to *Quexua*), 6 (bibliographic reference, new locality record from Brazil); Amarante, 2002a:32 (in catalog of Neotropical Crabronidae).

2. *cashibo* Pate

Quexua cashibo Pate, 1942a:72, ♀, ♂. Holotype: ♀, Peru: Cerro: Puerto Bermudez on Río Pichis (Cornell Univ.). – Soukup, 1943:266 (Peru); Leclercq, 1954c:209 (in catalog of world Crabronini); R. Bohart and Menke, 1976:387 (in checklist of world Sphecidae); Leclercq, 1980b:64 (in key to *Quexua*), 65 (listed; Peru); Cambra, 1993:16 (Peru: Pakitza at 11°57'S 71°17'W); Amarante, 2002a:32 (in catalog of Neotropical Crabronidae); Leclercq, 2002a:5 (in new key to *Quexua*), 6 (bibliographic references, new locality records from Bolivia and Peru); Amarante, 2005a:10 (correction to his 2002 catalog); Leclercq, 2005b:8 (Peru: Madre de Dios: Pakitza Reserve: Manu); Rasmussen and Asenjo, 2009:9 (in checklist of Crabronidae of Peru).

3. *cicra* Bennett

Quexua cicra Bennett, 2011:66, ♂. Holotype: ♂, Peru: Madre de Dios: Centro de Investigación Capacitación Río Los Amigos at 12.5526°S 70.1101°W (Museo Nacional de Historia Natural, Lima, Peru).

4. *essequibo* Pate

Quexua essequibo Pate, 1942a:59, ♀. Holotype: ♀, Guyana: Maraballi Creek on Essequibo River (BMNH). – Leclercq, 1954c:209 (in catalog of world Crabronini); R. Bohart and Menke, 1976:387 (in checklist of world Sphecidae); Leclercq, 1980b:63 (in key to *Quexua*), 66 (listed; Colombia), 2002a:4 (in new key to *Quexua*), 6 (bibliographic references); Amarante, 2002a:32 (in catalog of Neotropical Crabronidae); Leclercq, 2005b:8 (Ecuador: Morona Santiago: Macas; recognition characters).

5. *happarti* Leclercq

Quexua happarti Leclercq, 2002a:6, ♀, ♂. Holotype: ♀, Costa Rica: Heredia: 3 km south of Puerto Viejo (Museo de Insectos, Univ. de Costa Rica). – Leclercq, 2002a:5 (in new key to *Quexua*); Amarante, 2005a:5 (in addendum to his 2002 catalog of Neotropical Crabronidae and Sphecidae); Leclercq, 2005b:8 (Panama: Parco Nacional Darién).

6. *inca* Leclercq

Quexua inca Leclercq, 1955d:298, ♀. Holotype: ♀, Peru: Callanga (NHMW). Paratypes: Bolivia. – R. Bohart and Menke, 1976:387 (in checklist of world Sphecidae); Leclercq, 1980b:62 (in key to *Quexua*), 66 (listed), 2002a:4 (in new key to *Quexua*), 8 (bibliographic reference, new locality records from Bolivia); Amarante, 2002a:32 (in catalog of Neotropical Crabronidae); Leclercq 2005:8 (does not occur in Colombia); Rasmussen and Asenjo, 2009:9 (in checklist of Crabronidae of Peru).

7. *incretata* Leclercq

Quexua incretata Leclercq, 2005b:8, ♀. Holotype: ♀, Colombia: Putamayo: Villa Garzon (M. Cooper collection, London).

8. *josei* Leclercq

Quexua josei Leclercq, 2002a:9, ♀. Holotype: ♀, Colombia: Valle: Buenaventura as corrected by Leclercq, 2005b:9 (FSCA). – Leclercq, 2002a:5 (in new key to *Quexua*); Amarante, 2005a:5 (in addendum to his 2002 catalog of Neotropical Crabronidae and Sphecidae).

9. *manuta* Leclercq

Quexua manuta Leclercq, 1980b:66, ♀. Holotype: ♀, Peru: Madre de Dios: Quincemil (AMNH). – Leclercq, 1980b:65 (in key), 2002a:5 (in new key to *Quexua*), 9 (reference to original description); Amarante, 2002a:32 (in catalog of Neotropical Crabronidae); Leclercq, 2005b:9 (locality records from Bolivia, Colombia, and Ecuador); Rasmussen and Asenjo, 2009:9 (in checklist of Crabronidae of Peru).

10. *mituna* Leclercq

Quexua mituna Leclercq, 1980b:66, ♀, ♂. Holotype: ♀, Colombia: Vaupes: Mitu (BMNH). – Leclercq, 1980b:64 (in key to *Quexua*), 2002a:5 (in new key to *Quexua*), 9 (reference to original description); Amarante, 2002a:32 (in catalog of Neotropical Crabronidae).

11. *muyunae* Leclercq

Quexua muyunae Leclercq, 1980b:67, ♂. Holotype: ♂, Ecuador: Napo: Muyuna (BMNH). – Leclercq, 1980b:65 (in key), 2002a:6 (in new key to *Quexua*), 9 (reference to original description); Amarante, 2002a:33 (in catalog of Neotropical Crabronidae).

12. *nericata* Leclercq

Quexua nericata Leclercq, 1980b:67, ♀. Holotype: ♀, Colombia: Narino: Barbacoas (BMNH). Paratype: Peru. – Leclercq, 1980b:63 (in key to *Quexua*); Hanson and Menke, 1995:644 (known from Costa Rica, determination tentative); Amarante, 2002a:33 (in catalog of Neotropical Crabronidae); Leclercq, 2002a:4 (in new key to *Quexua*), 9 (reference to original description, new locality records from Colombia, Costa Rica, and Ecuador), 2005b:9 (locality records from Bolivia, Costa Rica, Ecuador, and Panama); Rasmussen and Asenjo, 2009:9 (in checklist of Crabronidae of Peru).

13. *pano* Pate

Quexua pano Pate, 1942a:70, ♀. Holotype: ♀, Peru: Cerro: Puerto Bermudez on Río Pichis (Cornell Univ.). – Soukup, 1943:266 (Peru); Leclercq, 1954c:209 (in catalog of world Crabronini), 1955d:296 (Peru; additional description); R. Bohart and Menke, 1976:387 (in checklist of world Sphecidae); Leclercq, 1980b:64 (in key to *Quexua*), 68 (bibliographic reference and locality records from Peru); Cambra, 1993:16 (Peru: Pakitza at 11°57'S 71°17'W); Leclercq, 2002a:5 (in new key to *Quexua*) 10 (reference to original description, new locality records from Ecuador); Amarante, 2002a:33 (in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:9 (in checklist of Crabronidae of Peru).

14. *pastazae* Leclercq

Quexua pastazae Leclercq, 2005b:9, ♀. Holotype: ♀, Ecuador: Tungurahua: Río Topo in Pastaza Valley (M. Cooper collection, London).

15. *ricata* Leclercq

Quexua ricata Leclercq, 1955d:297, ♀. Holotype: ♀, Costa Rica: Río Reventazón (NHMV). – R. Bohart and Menke, 1976:387 (in checklist of world Sphecidae); Leclercq, 1980b:63 (in key to *Quexua*); Callan, 1991a:12 (Trinidad); Hanson and Menke, 1995:644 (known from Costa Rica); Cambra and Santos, 2000:54 (Panama: Parque Nacional Coiba in Isla de Coiba, Pacific Ocean); Amarante, 2002a:33 (in catalog of Neotropical Crabronidae); Leclercq, 2002a:4 (in new key to *Quexua*), 10 (bibliographic references, new locality records from Bolivia, Colombia, Costa Rica, Ecuador, French Guyana, and Panama); Starr and Hook, 2003:19 (in catalog of Aculeata of Trinidad, West

Indies); Leclercq, 2005b:10 (correction to 2002 key; locality records from Bolivia, Colombia, Costa Rica, Ecuador, and Panama); Rasmussen and Asenjo, 2009:9 (in checklist of Crabronidae of Peru).

16. *verticalis* (F. Smith)

Crabro verticalis F. Smith, 1873b:104, ♀. Holotype or syntypes: ♀, Brazil: Amazonas: São Paulo de Olivença (BMNH). – Dalla Torre, 1897:636 (in catalog of world Sphecidae); W. Fox, 1897b:387 (Brazil: Mato Grosso: Chapada do Guimaraes). – **As *Quexua verticalis***: Leclercq, 1950:6 (new combination), 1954c:209 (in catalog of world Crabronini), 1955d:296 (Brazil: Tefé; correction to original description); R. Bohart and Menke, 1976:387 (in checklist of world Sphecidae); Leclercq, 1980b:63 (in key to *Quexua*), 69 (bibliographic references; locality records from Bolivia, Brazil, Colombia, Ecuador, and Peru); M. Cooper, 1986c:17 (nest and prey: adult Cicadellidae); Cambra, 1993:16 (Peru: Pakitza at 11°57'S 71°17'W); Cambra and Santos, 2000:54 (first record from Panama: Parque Nacional Darién); Leclercq, 2002a:5 (in new key to *Quexua*), 11 (bibliographic references, new locality records from Bolivia, Brazil, Colombia, and Ecuador); Amarante, 2002a:33 (in catalog of Neotropical Crabronidae); Leclercq, 2005b:10 (correction to earlier locality spelling: Rio Javari, Estirão is correct; locality records from Colombia, Ecuador, and Peru); Morato, Amarante, and Silveira, 2008:793 (Brazil: Acre: Parque Nacional da Serra do Divisor); Rasmussen and Asenjo, 2009:9 (in checklist of Crabronidae of Peru).

Quexua llameo Pate, 1942a:64, ♀, ♂. Holotype: ♂, Peru: Cerro: Puerto Bermudez on Río Pichis (Cornell Univ.). Paratypes: Colombia. Synonymized with *Quexua verticalis* by Leclercq, 1950a:6. – Soukup, 1943:265 (Peru).

17. *witoto* Pate

Quexua witoto Pate, 1942a:67, ♂. Holotype: ♂, Colombia: Putamayo: La Sombra (Cornell Univ.). – Soukup, 1943:266 (Peru); Leclercq, 1954c:209 (in catalog of world Crabronini); R. Bohart and Menke, 1976:387 (in checklist of world Sphecidae); Leclercq, 1980b:64 (in key to *Quexua*), 69 (listed; Colombia), 2002a:11 (bibliographic references); Amarante, 2002a:32 (in catalog of Neotropical Crabronidae); Rasmussen and Asenjo, 2009:9 (in checklist of Crabronidae of Peru).