



## New species of *Cheiracanthium* (Araneae: Eutichuridae) from Madagascar and the Comoros Islands

L.N. LOTZ

Department of Arachnology, National Museum, P.O. Box 266, Bloemfontein 9300, South Africa. E-mail: [arachnol@nasmus.co.za](mailto:arachnol@nasmus.co.za)

### Table of contents

Abstract .....	301
Introduction .....	302
Methods .....	302
Systematics .....	302
Eutichuridae .....	302
<i>Cheiracanthium</i> C.L. Koch .....	303
<i>Cheiracanthium africanum</i> Lessert, 1921 .....	303
<i>Cheiracanthium ambrense</i> sp. nov. ....	304
<i>Cheiracanthium ampijoroa</i> sp. nov. ....	307
<i>Cheiracanthium andranomay</i> sp. nov. ....	308
<i>Cheiracanthium anjozorobe</i> sp. nov. ....	308
<i>Cheiracanthium ashleyi</i> sp. nov. ....	311
<i>Cheiracanthium fisheri</i> sp. nov. ....	313
<i>Cheiracanthium foulpointense</i> sp. nov. ....	315
<i>Cheiracanthium furculatum</i> Karsch, 1879 .....	317
<i>Cheiracanthium griswoldi</i> sp. nov. ....	318
<i>Cheiracanthium insulare</i> (Vinson, 1863) .....	319
<i>Cheiracanthium jocquei</i> sp. nov. ....	319
<i>Cheiracanthium leucophaeum</i> Simon, 1897 .....	321
<i>Cheiracanthium ludovici</i> Lessert 1921 .....	322
<i>Cheiracanthium madagascarense</i> sp. nov. ....	324
<i>Cheiracanthium mahajanga</i> sp. nov. ....	325
<i>Cheiracanthium ransoni</i> sp. nov. ....	326
<i>Cheiracanthium rothi</i> sp. nov. ....	327
Acknowledgements .....	330
References .....	330

### Abstract

The Afrotropical representatives of the spider genus *Cheiracanthium* C.L. Koch, 1839 from Madagascar and the Comoros Islands are revised, and new species are described. Five described species are recognized: *C. africanum* Lessert, 1921, *C. furculatum* Karsch, 1879, *C. insulare* (Vinson, 1863), *C. leucophaeum* Simon, 1896, and *C. ludovici* Lessert, 1921. The internal genitalia of the female of *C. insulare*, and the female of *C. ludovici*, are described for the first time. Thirteen new species, *C. ambrense* sp. nov. (♂♀), *C. ampijoroa* sp. nov. (♀), *C. andranomay* sp. nov. (♀), *C. anjozorobe* sp. nov. (♂♀), *C. ashleyi* sp. nov. (♂♀), *C. fisheri* sp. nov. (♂♀), *C. foulpointense* sp. nov. (♂♀), *C. griswoldi* sp. nov. (♂♀), *C. jocquei* sp. nov. (♂♀), *C. madagascarense* sp. nov. (♂♀), *C. mahajanga* sp. nov. (♀), *C. ransoni* sp. nov. (♂♀) and *C. rothi* sp. nov. (♂♀), are described. In most of the endemic Madagascan species the female genital depression is divided by a central septum and the male cymbial apophysis is bent distally.

**Key words:** spiders, new species, Afrotropical Region, taxonomy, distribution

- Chikuni, Y. (1989) *Pictorial Encyclopedia of spiders in Japan*. Kaisei-sha Publishing, Tokyo, 310 pp.
- Dippenaar-Schoeman, A.S. & Jocqué, R. (1997) *African spiders, an identification manual*. Plant Protection Research Institute Handbook no. 9. Agricultural Research Institute, Pretoria, 392 pp.
- Dondale, C.D. & Redner, J.H. (1982) *The insects and arachnids of Canada. Part 9. The sac spiders of Canada and Alaska. Araneae: Clubionidae and Anyphaenidae*. Research Branch Agriculture Canada, Ottawa, Publication 1724, 194 pp.
- Feng, Z.Q. (1990) *Spiders of China in colour*. Hunan Science and Technology Publishing House, 256 pp.
- Karsch, F. (1879) Westafrikanische Arachniden, gesammelt von Herrn Stabsarzt Dr. Falkenstein. *Zeitschrift für die Gesamte Naturwissenschaft*, 52, 329–373.
- Koch, C.L. (1839) *Die Arachniden*. Sechster Band, Nürnberg, 156 pp.
- Lawrence, R.F. (1927) Contributions to a knowledge of the fauna of South-West Africa V. Arachnida (Part 1). *Annals of the South African Museum*, 25, 1–75.
- Lawrence, R.F. (1936) Spiders (Ctenizidae excepted). In: Scientific Results of the Vernay-Lang Kalahari Expedition, March to September 1930. *Annals of the Transvaal Museum*, 17, 145–158.
- Lawrence, R.F. (1942) A contribution to the araneid fauna of Natal and Zululand. *Annals of the Natal Museum*, 10, 141–190.
- Lawrence, R.F. (1947) A collection of Arachnida made by Dr I. Trägårdh in Natal and Zululand (1904–1905). *Göteborgs Kungliga Vetenskaps-och Vitterhets-Samhälles handlingar*, Series 6, 5B (9), 1–41.
- Ledoux, J.-C. (2004) Araignées de l'île de La Réunion: I. Hahniidae, Ctenidae, Thomisidae et Clubionidae (Araneae). *Revue Arachnologique*, 14, 159–191.
- Lehtinen, P.T. (1967) Classification of the Cribellate spiders and some allied families, with notes on the evolution of the suborder Araneomorpha. *Annales Zoologici Fennici*, 4, 199–467.
- Lessert de, R. (1921) Araignées du Kilimandjaro et du Merou (suite). 4. Clubionidae. *Revue Suisse de Zoologie*, 28, 381–442.
- Lessert de, R. (1929) Araignées du Congo recueillies au cours de l'expédition par l'American Museum (1909–1915). Troisième partie. *Revue Suisse de Zoologie*, 36, 103–159.
- Lessert de, R. (1936) Araignées de l'Afrique orientale portugaise, recueillies par MM. P. Lesne et H.-B. Cott. *Revue Suisse de Zoologie*, 43, 207–306.
- Lotz, L.N. (2007a) The genus *Cheiracanthium* (Araneae: Miturgidae) in the Afrotropical Region. 1. Revision of known species. *Navorsing van die Nasionale Museum, Bloemfontein*, 23, 1–76.
- Lotz, L.N. (2007b) The genus *Cheiracanthium* (Araneae: Miturgidae) in the Afrotropical Region. 2. Description of new species. *Navorsing van die Nasionale Museum, Bloemfontein*, 23, 145–184.
- Lotz, L.N. (2011) The genus *Cheiracanthium* (Araneae: Miturgidae) in the Afrotropical Region. 3. Description of four new species. *Navorsing van die Nasionale Museum, Bloemfontein*, 27, 21–36.
- Lotz, L.N. & Dippenaar-Schoeman, A.S. (1999) *Cheiramiona*, a new Afrotropical spider genus (Araneae: Miturgidae: Eutichurinae). *Navorsing van die Nasionale Museum, Bloemfontein*, 15, 33–44.
- Newlands, G. (1986) *Necrotic arachnidism in southern Africa*. Ph.D. thesis, University of Witwatersrand, Johannesburg, 181 pp.
- Paik, K.Y. (1990) Korean spiders of the genus *Cheiracanthium* (Araneae: Clubionidae). *Korean Arachnology*, 6, 1–30.
- Petrunkovitch, A. (1933) An inquiry into the natural classification of spiders, based on a study of their internal anatomy. *Transactions of the Connecticut Academy of Arts and Sciences*, 31, 299–389.
- Platnick, N.I. (2014) *The world spider catalog, version 14.5*. American Museum of Natural History. Available from: <http://research.amnh.org/entomology/spiders/catalog/index.html> (accessed 12 February 2014)
- Ramirez, M.J. (2014) The morphology and phylogeny of dionychan spiders (Araneae: Araneomorphae). *Bulletin of the American Museum of Natural History*, 390, 1–394. <http://dx.doi.org/10.1206/821.1>
- Reimoser, E. (1937) Beitrag zur Spinnenfauna von Erythrae. *Memorie della Società Entomologica Italiana*, 16, 16–24.
- Roberts, M.J. (1985) *The Spiders of Great Britain and Ireland*. Harley Books, Colchester, 229 pp.
- Roewer, C.F. (1951) Neue Namen einiger Araneen-Arten. *Abhandlungen der Naturwissenschaftlichen Verein zu Bremen*, 32, 437–456.
- Roewer, C.F. (1954) *Katalog der Araneae von 1758 bis 1940, bzw. 1954*. Institut Royal des Sciences Naturelles de Belgique, Bruxelles, 2a–b, 1–1751.
- Schmidt, G., Geisthardt, M. & Piepho, F. (1994) Zur Kenntnis der Spinnenfauna der Kapverdischen Inseln (Arachnida: Araneida). *Mitteilungen des Internationaler Entomologischer Vereins*, 19, 81–126.
- Schmidt, G.E.W. & Jocqué, R. (1983) Spinnen von der Insel Reunion. *Revue Zoologique Africaine*, 97, 353–364.
- Simon, E. (1885) Etudes arachnologiques. 18e Mémoire. XXVI. Matériaux pour servir à la faune des Arachnides du Sénégal. (Suivi d'une appendice intitulé: Descriptions de plusieurs espèces africaines nouvelles). *Annales de la Société Entomologique de France*, Series 6, 5, 345–396.
- Simon, E. (1896) Descriptions d'Arachnides nouveaux de la famille des Clubionidae. *Annales de la Société Entomologique de Belgique*, 40, 400–422.
- Simon, E. (1897) Description d'Arachnides nouveaux. *Annales de la Société Entomologique de Belgique*, 41, 8–17.
- Simon, E. (1910) Arachnides recueillis par L. Fea sur la côte occidentale d'Afrique. 2e partie. *Annali del Museo Civico di Storia Naturale di Genova*, 44, 335–449.
- Simon, E. (1932) *Les Arachnides de France. Tome VI. Synopsis générale et Catalogue des espèces françaises de l'ordre des*

*Araneae*. Paris, 6, 773–978.

- Sterghiu, C. (1985) Fam. Clubionidae. In: *Fauna Republicii Socialiste România: Arachnida*. Academia Republicii Socialiste România, Bucharest, 5, 1–165.
- Strand, E. (1906) Diagnosen nordafrikanischer, hauptsächlich von Carlo Freiherr von Erlanger gesammelter Spinnen. *Zoologischer Anzeiger*, 30, 604–637, 655–690.
- Strand, E. (1915) Zentralafrikanische Clubioniden. (Wissenschaftliche Ergebnisse der Deutschen Zentral Afrika Expedition 1907–1908 unter Führung Adolf Friedrichs, Herzogs zu Mecklenberg.). *Archiv für Naturgeschichte*, 81A (11), 79–98.
- Vinson, A. (1863) *Aranéides des îles de la Réunion, Maurice et Madagascar*. Librairie Encyclopédique Roret, Paris, cxx + 337 pp.
- Wolf, A. (1991) *Cheiracanthium*, In: Heimer, S. & Nentwig, W. (Eds.), *Spinnen Mitteleuropas. Ein Bestimmungsbuch*. Verlag Paul Parey, Berlin, 543 pp.
- Yaginuma, T. (1986) *Spiders of Japan in colour*. Hoikusha Publishing, Osaka, 305 pp.