

## Spiders from Vietnam (Arachnida: Aranei): new species and records

## Пауки из Вьетнама (Arachnida: Aranei): новые виды и находки

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КЛЮЧЕВЫЕ СЛОВА: пауки, Araneae, Вьетнам, (пере)описания, таксономия, синонимия.

ABSTRACT. A total of 51 spider species collected from Vietnam is considered, of which seven are described as new: Araneidae: *Argiope abramovi* sp.n. (♀); Clubionidae: *Nusatidia vietnamensis* sp.n. (♀); Selenopidae: *Selenops ab* sp.n. (♂); Sparassidae: *Pseudopoda ohne* sp.n. (♂), *Thelcticopis buu* sp.n. (♂); Thomisidae: *Lysiteles vietnamensis* sp.n. (♂♀); Salticidae: *Pancorius crinitus* sp.n. (♂♀). The genus *Lechia* Żabka, 1985 is synonymized with *Laufeia* Simon, 1889 (Salticidae). A new species synonymy is established: *Pseudopoda houaphan* Jäger, 2007 with *P. namkhan* Jäger, Pathoumthong et Vedel, 2006 (Sparassidae). A new combination is proposed: *Laufeia squamata* (Żabka, 1985), **comb.n.**, ex *Lechia* (Salticidae). Unknown sexes are described for two species: *Laufeia squamata* (Żabka, 1985) (♂), *Ptocasius weyersi* Simon, 1885 (♀) (Salticidae). The following 16 species are reported for the spider fauna of Vietnam for the first time: Theridiidae: *Phycosoma sinica* (Zhu, 1992), *Steatoda cingulata* (Thorell, 1890); Tetragnathidae: *Leucauge tessellata* (Thorell, 1887), *Orsinome vethi* (Hasselt, 1842), *Tetragnatha geniculata* Karsch, 1892; Araneidae: *Argiope jinghongensis* Yin, Peng et Wang, 1994, *Macracantha arcuata* (Fabricius, 1793); Sparassidae: *Pseudopoda namkhan* Jäger, Pathoumthong et Vedel, 2006; Thomisidae: *Lysiteles conicus* Tang, Yin, Peng, Ubick et Griswold, 2007, *L. dentatus* Tang, Yin, Peng, Ubick et Griswold, 2007, *L. punctiger* Ono, 2001, *L. torsivus* Zhang, Zhu et Tso, 2006, *Xysticus croceus* Fox, 1937; Salticidae: *Portia fimbriata* (Doleschall, 1859), *P. labiata* (Thorell, 1887), *Ptocasius weyersi* Simon, 1885.

РЕЗЮМЕ. В статье рассмотрен 51 вид пауков, собранных во Вьетнаме, из которых семь описаны, как новые для науки: *Argiope abramovi* sp.n. (♀); Clubionidae: *Nusatidia vietnamensis* sp.n. (♀); Selenopidae: *Selenops ab* sp.n. (♂); Sparassidae: *Pseudopoda ohne* sp.n. (♂), *Thelcticopis buu* sp.n. (♂); Thomisidae: *Lysiteles vietnamensis* sp.n. (♂♀); Salticidae: *Pancorius crinitus* sp.n. (♂♀). Род *Lechia* Żabka, 1985 синонимизирован с *Laufeia* Simon, 1889

(Salticidae). Установлена видовая синонимия: *Pseudopoda houaphan* Jäger, 2007 с *P. namkhan* Jäger, Pathoumthong et Vedel, 2006 (Sparassidae). Предложена новая комбинация: *Laufeia squamata* (Żabka, 1985), **comb.n.**, ex *Lechia* (Salticidae). Неизвестные пола описаны для двух видов: *Laufeia squamata* (Żabka, 1985) (♂), *Ptocasius weyersi* Simon, 1885 (♀) (Salticidae). Следующие 16 видов указаны для фауны пауков Вьетнам впервые: Theridiidae: *Phycosoma sinica* (Zhu, 1992), *Steatoda cingulata* (Thorell, 1890); Tetragnathidae: *Leucauge tessellata* (Thorell, 1887), *Orsinome vethi* (Hasselt, 1842), *Tetragnatha geniculata* Karsch, 1892; Araneidae: *Argiope jinghongensis* Yin, Peng et Wang, 1994, *Macracantha arcuata* (Fabricius, 1793); Sparassidae: *Pseudopoda namkhan* Jäger, Pathoumthong et Vedel, 2006; Thomisidae: *Lysiteles conicus* Tang, Yin, Peng, Ubick et Griswold, 2007, *L. dentatus* Tang, Yin, Peng, Ubick et Griswold, 2007, *L. punctiger* Ono, 2001, *L. torsivus* Zhang, Zhu et Tso, 2006, *Xysticus croceus* Fox, 1937; Salticidae: *Portia fimbriata* (Doleschall, 1859), *P. labiata* (Thorell, 1887), *Ptocasius weyersi* Simon, 1885.

## Introduction

The spider fauna of Vietnam is currently under intensive taxonomic and faunistic studies. It was recently reviewed by Ono et al. [2012], who listed 456 spider species. Since that time, some 50 additional spider species have been added to or described from Vietnam in the following families: Atypidae, one species [Zha et al., 2012]; Hahniidae, five species [Zhang et al., 2013]; Mysmenidae, three species [Lin, Li, 2014]; Nemesiidae, one species [Li, Zonstein, 2015]; Oonopidae, two species [Tong, Li, 2013]; Pholcidae, 27 species [Yao et al., 2012, 2015; Pham, 2015]; Psecridae, four species [Bayer, 2014]; Sparassidae, three species [Jäger, 2008; Eusemann, Jäger, 2009; Pham, 2012]; Thomisidae, one species [Benjamin, 2013]; and Zodariidae, three species [Dankittipakul et al., 2012]. Thus, to date a total of 506

spider species has been reported from Vietnam, a number that beyond doubts represents a small proportion of the real spider diversity of the country.



Map. Collecting localities of the spider material studied in the present paper: 1 — Dien Bien Prov., Muong Nhe Distr.; 2 — Lao Cai Prov., Hoang Lien Nat. Park; 3 — Lao Cai Prov., Van Ban Distr.; 4 — Son La Prov., Phu Yen Distr.; 5 — Phu Tho Prov., Xuan Son Nat. Park; 6 — Ba Vi Distr., Ba Vi Nat. Park; 7 — Vinh Phuc Prov., Vinh Yen Distr., Tam Dao; 8 — Lang Son Prov., Huu Lien Nat. Res.; 9 — Ha Tinh Prov., Huong Son Distr.; 10 — Ha Tinh Prov., Hong Linh; 11 — Ha Tinh Prov., Ke Go Nat. Res.; 12 — Kon Tum Prov., Kon Plong Distr.; 13 — Kon Tum Prov., Chu Mom Ray Nat. Park; 14 — the border between Gia Lai and Dak Lak Provinces; 15 — Dak Lak Prov., Chu Yang Sin Nat. Park; 16 — Binh Phuoc Prov., Bu Gia Map Nat. Park; 17 — Lam Dong Prov., Loc Bao Distr.; 18 — Dong Nai Prov., Vinh Cuu Nat. Res.; 19 — Dong Nai Prov., Cat Tien Nat. Park; 20 — Binh Thuan Prov., Phan Thiet; 21 — Ba Ria — Vung Tau Prov., Binh Chau — Phuoc Buu Nat. Res.; 22 — Ba Ria — Vung Tau Prov., Central part of Con Son Island.

Карта. Точки сбора материала по паукам, изученного в настоящей статье: 1 — пров. Дьенбьен, округ Муонгнэ; 2 — пров. Лаокай, нац. парк Хоанглиен; 3 — пров. Лаокай, округ Ванбан; 4 — пров. Шонла, округ Фуен; 5 — пров. Футо, нац. парк Суансон; 6 — округ Бави, нац. парк Бави; 7 — пров. Виньфук, округ Виньен, Тамдао; 8 — пров. Лангсон, нац. парк Хуулиен; 9 — пров. Хатинь, округ Хуонгсон; 10 — пров. Хатинь, Хонглинь; 11 — пров. Хатинь, заповедник Кего; 12 — пров. Контум, округ Конплонг; 13 — пров. Контум, нац. парк Чумомрай; 14 — граница между провинциями Зялай и Даклак; 15 — пров. Даклак, нац. парк Чуянсин; 16 — пров. Биньфуок, нац. парк Бузямап; 17 — пров. Ламдонг, округ Локбао; 18 — пров. Донгнай, заповедник Винькуу; 19 — пров. Донгнай, нац. парк Катъен; 20 — пров. Биньтуан, Фантьет; 21 — пров. Бариа-Вунгтау, заповедник Биньчау-Фуокбуу; 22 — пров. Бариа-Вунгтау, центр. часть о-ва Коншон.

The aims of the present paper are: (1) to describe seven new spider species from Vietnam; (2) to describe unknown sexes for two species; (3) to establish new species and generic synonymies; and (4) to provide new faunistic records for 45 spider species, of which 16 are recorded from Vietnam for the first time.

## Material and methods

This work is based on museum and private spider collections, of which the bulk of studied specimens was collected by Dr Alexei V. Abramov (Zoological Institute RAS, St. Petersburg) during a number of field trips to Vietnam (2000–2015; see Map) supported by the Russian-Vietnamese Tropical Centre. A total of 173 adult specimens belonging to 51 spider species has been studied and included in this paper. The studied material has been borrowed from or deposited in the following museums: BMNH — British Museum of Natural History, London, UK (J. Beccaloni); MMUE — The Manchester Museum, University of Manchester, Manchester, UK (D.V. Logunov); PSU — Zoological Department of the Perm State University, Perm, Russia (S.L. Esyunin); RMNH — Rijksmuseum von Natuurlijke Historie Naturalis, Leiden, The Netherlands (K. van Dorp, J. Miller); SMF — Senckenberg Research Institute, Frankfurt am Main, Germany (J. Altmann, P. Jäger); ZMMU — Zoological Museum of the Moscow University, Moscow, Russia (K.G. Mikhailov).

In the following annotated list of species, all the collecting localities are given in the order presented on the map (from north to south), and the numbers in square brackets following the detailed information on each locality correspond to those given on the map.

Abbreviations used in the text: *Copulatory organs*: RTA — retrolateral tibial apophysis, VTA — ventral tibial apophysis. *Body measurements*: AW — anterior width of prosoma, OL — opisthosoma length, OW — opisthosoma width, PL — prosoma length, PW — prosoma width. *Eyes and eye interdistances*: ALE — anterior lateral eye, AME — anterior median eye, MOA — median ocular area, MOA-L — length of MOA, MOA-WA — anterior width of MOA, MOA-WP — posterior width of MOA, PLE — posterior lateral eye, PME — posterior median eye. *Legs and leg segments*: I–IV — legs I, II, III and IV, Fm — femur, Mt — metatarsus, Pt — patella, Tb — tibia, Tr — tarsus. *Position of spines on legs*: ap — apical, d — dorsal, pr — prolateral, rt — retrolateral, v — ventral. *Other abbreviations*: a.s.l. — above sea level, Nat. — National, nr. — near, Vil. — village. For the leg spination and terminology presented in the (re)descriptions of Salticidae and Thomisidae the system adopted is that used by Ono [1988], for Clubionidae, Selenopidae and Sparassidae that used by Davies [1994]. The sequence of leg segments in measurement data is as follows: femur + patella + tibia + metatarsus + tarsus. All measurements are in millimetres.

## Survey of species

## Theridiidae

*Phycosoma sinica* (Zhu, 1992)

MATERIAL. VIETNAM: 1 ♀ (ZMMU), Vinh Phuc Prov., Vin Yen Distr., nr. Tam Dao Town (21°27'20"N, 105°38'37"E) [7], 900 m a.s.l., 27.04.2000, A.V. Abramov.

COMMENTS. To date, this species has been known from China only [WSC, 2015]; first record for Vietnam (Map: 7).

*Steatoda cingulata* (Thorell, 1890)

MATERIAL. VIETNAM: 1 ♂ (ZMMU), Phu Tho Prov., Thanh Son Distr., Xuan Son Nat. Park (21°08'11"N, 104°56'11"E) [5], 300–400 m a.s.l., July 2014, A.V. Abramov.

COMMENTS. Oriental species, known from Korea and Japan in the north, southward throughout China and Laos to Indonesia (Sumatra, Java) [WSC, 2015]; first record for Vietnam (Map: 5).

## Tetragnathidae

*Leucauge celebesiana* (Walckenaer, 1841)

MATERIAL. VIETNAM: 1 ♂ (ZMMU), Lao Cai Prov., Van Ban Distr., Nam Xay Commune (21°58'26"N, 104°02'28"E) [3], 900–1200 m a.s.l., 19.03–15.04.2005, A.V. Abramov; 4 ♀♀ (MMUE, G7565.10), Kon Tum Prov., Kon Plong Distr., c. 14 km N of Kon Plong Town (14°43'20"N, 108°18'58"E) [12], 1030 m a.s.l., 9–23.04.2015 A.V. Abramov; 1 ♀ (ZMMU), Dak Lak Prov., Krong Kmar Distr., Chu Yang Sin Nat. Park (12°23'48"N, 108°20'59"E) [15], 1000 m a.s.l., April 2012, A.V. Abramov; 1 ♀ (MMUE, G7565.11), Lam Dong Prov., Loc Bao Distr., c. 35 km N of Bao Loc Town (11°50'12"N, 107°38'25"E) [17], 650 m a.s.l., April–May 2012, A.V. Abramov.

COMMENTS. Widespread Oriental species, known from southern India in the west to Japan in the east, and from the Russian Far East (Maritime Territory) in the north to New Guinea in the south [Marusik, Kovblyuk, 2011; WSC, 2015]; hitherto recorded from Vietnam ("Cam-Nang") by Simon [1909; see Ono et al., 2012].

*Leucauge tessellata* (Thorell, 1887)

MATERIAL. VIETNAM: 2 ♀♀ (MMUE, G7565.9), Ba Vi Distr., c. 50 km W of Hanoi, Ba Vi Nat. Park, nr. Tanh Linh Vil. (21°05'49.6"N, 105°24'07.3"E) [6], 100 m a.s.l., May 2013, A.V. Abramov; 1 ♀ (ZMMU), Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 11–26.04.2000, A.V. Abramov.

COMMENTS. Oriental species, known from India in the west, throughout southern China (Yunnan), to Vietnam (present data), Taiwan and Moluccas [WSC, 2015]; first record for Vietnam (Map: 6, 9).

*Orsinome vethi* (Hasselt, 1842)

MATERIAL. VIETNAM: 6 ♂♂, 7 ♀♀ (ZMMU), Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 11–26.04.2000, A.V. Abramov.

COMMENTS. Oriental species, known from southern China and Laos to Malaysia and Indonesia (Sumatra, Java and Flores) [WSC, 2015]; first record for Vietnam (Map: 9).

*Tetragnatha geniculata* Karsch, 1892

MATERIAL. VIETNAM: 1 ♀ (ZMMU), Dak Lak Prov., Krong Kmar Distr., Chu Yang Sin Nat. Park (12°25'26"N, 108°21'52"E) [15], 950 m a.s.l., May 2014, A.V. Abramov.

COMMENTS. To date, this Oriental species has been known from Sri Lanka, southern China and Laos [Jäger, Praxaysombath, 2009; WSC, 2015]; first record for Vietnam (Map: 15).

## Nephiliidae

*Herennia multipuncta* (Doleschall, 1859)

MATERIAL. VIETNAM: 1 ♀ (MMUE), Dien Bien Prov., Muong Nhe Distr., Sin Thau Commune (22°21'54"N, 102°14'15"E) [1], 800 m a.s.l., June 2014, A.V. Abramov; 2 ♀♀ (ZMMU), Ha Tinh Prov., Cam Xuyen Distr., Ke Go Nat. Res., nr. Mui Tru Station (18°06'30"N, 106°01'01"E) [11], 40 m a.s.l., 7–14.04.2015 A.V. Abramov.

COMMENTS. Common Oriental species, known from India and Nepal in the west to the Philippines in the east, south-eastward to Indonesia (Sumatra, Borneo, Sumatra, etc.) [Kuntner, 2005; WSC, 2015]; hitherto recorded from Vietnam (Annam, Annam Region) by Kuntner [2005].

*Nephila pilipes* (Fabricius, 1793)

MATERIAL. VIETNAM: 3 ♀♀ (MMUE, G7565.1), Phu Tho Prov., Thanh Son Distr., Xuan Son Nat. Park (21°08'11"N, 104°56'11"E) [5], 300–400 m a.s.l., July 2014, A.V. Abramov; 2 ♀♀ (ZMMU), Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 11–26.04.2000, A.V. Abramov.

COMMENTS. Widespread Oriental species, known from India in the west, throughout southern China (Guangdong, Beijing, Liaoning), to the Philippines in the east, southward to Australia [Song et al., 1999; WSC, 2015]; hitherto recorded from Vietnam (Luc-Nam, forest Mai-Xu, Tuyen Quang and south Annam) by Simon [1909: sub *N. maculata*] and Hogg [1922; see Ono et al., 2012].

## Araneidae

*Argiope abramovi* Logunov et Jäger, sp.n.

Figs 1–7

TYPE. Holotype ♀ (ZMMU) from Vietnam, Kon Tum Prov., Kon Plong Distr., c. 14 km N of Kon Plong Town (14°43'20"N, 108°18'58"E) [12], 1030 m a.s.l., 09–23.04.2015, A.V. Abramov.

ETYMOLOGY. The species is named in honour of the collector of the holotype, Dr Alexei V. Abramov (Zoological Institute, St. Petersburg, Russia), who has been studying the Vietnamese vertebrate fauna for a long time and whose extensive spider material is partly included in this paper; the name in genitive case.

DIAGNOSIS. The female of *Argiope abramovi* sp.n. (Figs 5–7) is similar to that of *A. perforata* Schenkel, 1963 [cf. Song et al., 1999: figs 151,V,Y-Z] in having a similar dorsal and ventral colour pattern, with two lateral bands on the prosoma, two white longitudinal patches laterally, two small humps anteriorly on the opisthosoma, a white trilobate sternal patch and ventral opisthosoma with six white patches between two lateral parallel bands, as well as a wide median epigynal septum (seen in posterior view). It can be distinguished from the latter species by the following characters: (1) the characteristic shape of the median septum as seen in ventral view (Fig. 1); (2) opisthosoma dorsally with a posterior dark part separated by a white median band (Fig. 5); (3) small white dots on the median field of venter are round (Fig. 6) rather than transversally elongated as in *A. perforata*.

DISTRIBUTION. The type locality only (Map: 12).

DESCRIPTION. MALE. Unknown.

FEMALE. *Measurements*. PL 3.2, PW 2.8, AW 1.5, OL 5.8, OW 4.1. Eye diameters: AME 0.18, ALE 0.13, PME 0.25, PLE 0.21. Eye interdistances: AME–AME 0.15, AME–ALE 0.18, PME–PME 0.31, PME–PLE 0.50, AME–PME 0.39, ALE–PLE 0.01, clypeus AME 0.14, clypeus ALE 0.13. Leg and pedipalp measurements: pedipalp 3.59 (1.15, 0.51, 0.67, –, 1.26); Leg I 16.2 (4.8, 1.6, 3.9, 4.4, 1.5); Leg II 15.8 (4.8, 1.6, 3.8, 4.3, 1.3); Leg III 9.0 (3.0, 1.0, 1.9, 2.2, 0.9); Leg IV 14.2

(4.8, 1.5, 3.0, 3.9, 1.0). Leg formula: 1243. Chelicerae with 4 anterior, 3 posterior teeth and ca. 30 partly tiny denticles. Palpal claw with 9 teeth. *Coloration* in ethanol (Figs 5–7). Body brown, with a dark brown pattern. Prosoma dorsally with a light median band, fovea marked with a brown patch; dark lateral bands with light striae. Sternum with a white median band, which is trilobate posteriorly. Chelicerae dark brown. Palps light brown, with only few dark bands. Legs darker, with a vivid pattern of large annulated parts and small dots. Opisthosoma dorsally with two large lateral white patches anteriorly and two longitudinal parallel dark bands posteriorly; laterally white in its anterior half and brown in its posterior one; ventrally with a wide dark median band carrying six small round dots of equal size, two longitudinal parallel white bands, and a lateral hump in the middle part. Spinnerets reddish brown. *Copulatory organ* as characterised in the diagnosis (Figs 1–4): the epigyne as wide as long, with two large cavities laterally and a median septum diverging posteriorly and with distinct wrinkles anteriorly; spermathecae elongated oval, parallel; fertilisation ducts originate posteriorly, folded.

*Argiope jinghongensis* Yin, Peng et Wang, 1994

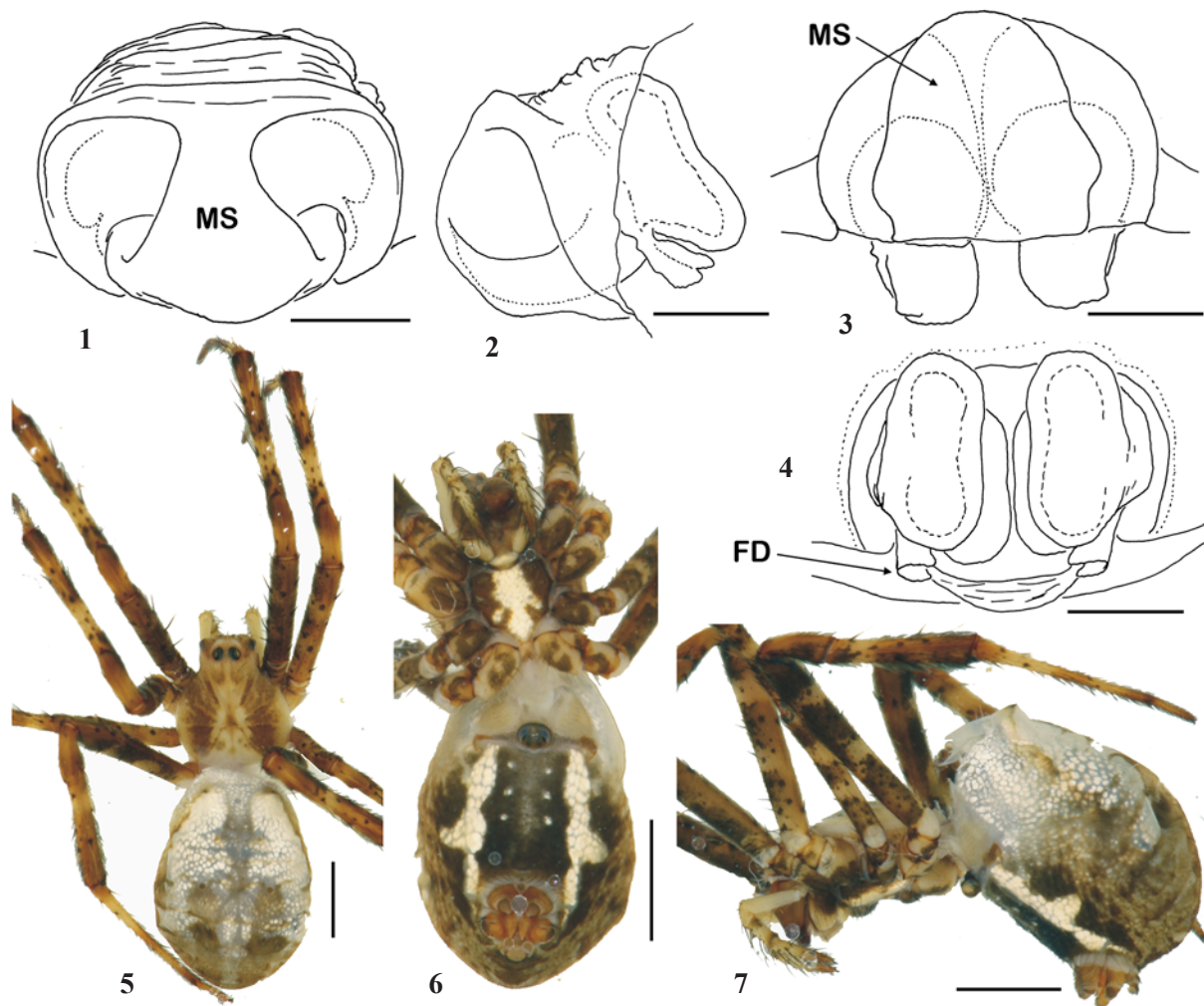
**MATERIAL.** VIETNAM: 1 ♀ (ZMMU), Dak Lak Prov., Krong Kmar Distr., Chu Yang Sin Nat. Park (12°23'48"N, 108°20'59"E) [15], 1000 m a.s.l., April 2012, A.V. Abramov.

**COMMENTS.** To date, the species has been recorded from a few localities in China (Yunnan), Laos and Thailand [Jäger, 2012a; WSC, 2015]; first record for Vietnam (Map: 15).

*Argiope pulchella* Thorell, 1881

**MATERIAL.** VIETNAM: 1 ♀ (ZMMU), Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 11–26.04.2000, A.V. Abramov.

**COMMENTS.** Oriental species, known from India in the west, throughout southern China, to Indonesia (Sumatra, Java and West Nusa Tenggara) in the south-east [Jäger, 2012a; WSC, 2015]; hitherto recorded from Vietnam (Phu-Lang-Thuong of Song Luc Nam region) by Simon [1909; see Ono et al., 2012].



Figs 1–7. Copulatory organs and habitus of *Argiope abramovi* sp.n. (♀ holotype), Araneidae: 1 — epigyne, ventral view; 2 — ditto, lateral view; 3 — ditto, posterior view; 4 — spermathecae, dorsal view; 5 — habitus, dorsal view; 6 — ditto, ventral view; 7 — ditto, lateral view. Scale bars: (1–4) 0.2 mm, (5–7) 2 mm. Abbreviations: FD — fertilization duct; MS — median septum.

Рис. 1–7. Копулятивные органы и габитус *Argiope abramovi* sp.n. (♀ голотип), Araneidae: 1 — эпигина, вид снизу; 2 — тоже, сбоку; 3 — тоже, сзади; 4 — сперматека, вид сверху; 5 — габитус, вид сверху; 6 — тоже, снизу; 7 — тоже, сбоку. Масштаб: (1–4) 0,2 мм, (5–7) 2 мм. Сокращения: FD — оплодотворительный канал; MS — медиальный септум.

*Cyclosa nigra* Yin, Wang, Xie et Peng, 1994

MATERIAL. VIETNAM: 1 ♀ (ZMMU), Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 11–26.04.2000, A.V. Abramov.

COMMENTS. To date, the species has been known from China (Yunnan) and Vietnam only [Ono et al., 2012; WSC, 2015]; hitherto recorded from Vietnam (Vinh Phuc Prov.) by Ono et al. [2012].

*Macracantha arcuata* (Fabricius, 1793)

MATERIAL. VIETNAM: 1 ♀ (ZMMU), Phu Tho Prov., Thanh Son Distr., Xuan Son Nat. Park (21°08'11"N, 104°56'11"E) [5], 300–400 m a.s.l., July 2014, A.V. Abramov.

COMMENTS. Oriental species, known from India in the west, throughout southern China (Yunnan), to Indonesia (Sumatra) [Song et al., 1999; sub *Gasteracantha a.*; WSC, 2015]; first record for Vietnam (Map: 5).

*Parawixia dehaani* (Doleschall, 1859)

MATERIAL. VIETNAM: 1 ♀ (ZMMU), Dien Bien Prov., Muong Nhe Distr., Sin Thau Commune (22°21'54"N, 102°14'15"E) [1], 800 m a.s.l., June 2014, A.V. Abramov; 1 ♀ (MMUE, G7565.7), Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 11–26.04.2000, A.V. Abramov; 1 ♀ (ZMMU), Ha Tinh Prov., Cam Xuyen Distr., Ke Go Nat. Res., nr. Mui Tru Station (18°06'30"N, 106°01'01"E) [11], 40 m a.s.l., 7–14.04.2015 A.V. Abramov; 1 ♀ (ZMMU), Kon Tum Prov., Kon Plong Distr., c. 14 km N of Kon Plong Town (14°43'20"N, 108°18'58"E) [12], 1030 m a.s.l., 9–23.04.2015, A.V. Abramov; 1 ♀ (MMUE, G7565.8), Kon Tum Prov., Eastern part of Chu Mom Ray Nat. Park, nr. Ro Koi Station (14°30'18"N, 107°43'22"E) [13], 700 m a.s.l., 26.03–6.04.2015, A.V. Abramov.

COMMENTS. Common Oriental species, known from India in the west to the Philippines in the east, south-eastward to New Guinea [WSC, 2015]; hitherto recorded from Vietnam (Song Luc Nam region and Port Wallut) by Simon [1887: sub *Epeira submucronata*; see Ono et al., 2012].

## Psecruidae

*Fecenia protensa* Thorell, 1891

MATERIAL. VIETNAM: 4 ♀♀ (ZMMU), Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], c. 200 m a.s.l., 11–26.04.2000, A.V. Abramov.

COMMENTS. Widespread Oriental species, known from India and Sri Lanka in the west, throughout southern Thailand and Vietnam, to Malaysia and Indonesia (Sumatra, Borneo, Bali) [WSC, 2015]; hitherto rerecorded from Vietnam (Yen Tu Mt. in Quang Ninh Prov.) by Bayer [2014].

## Clubionidae

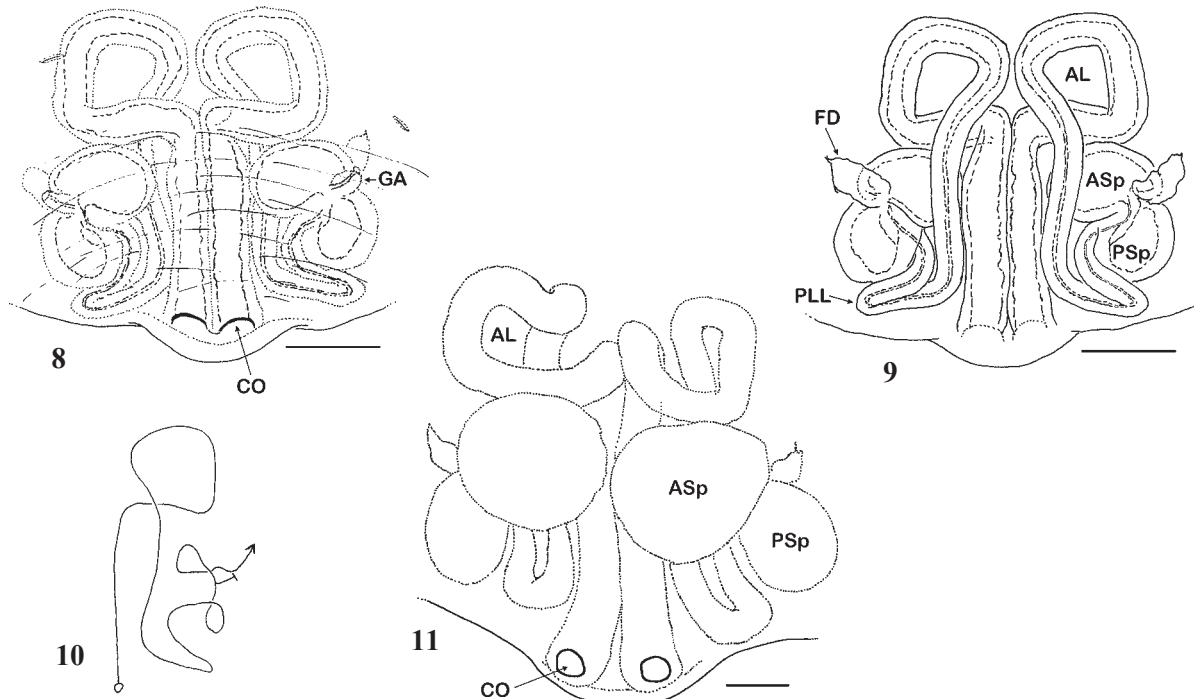
*Nusatidia vietnamensis* Logunov et Jäger, sp.n.

Figs 8–10.

TYPE. Holotype ♀ (ZMMU) from Vietnam, Lam Dong Prov., Loc Bao Distr., c. 35 km N of Bao Loc Vil. (11°50'12"N, 107°38'25"E) [17], 650 m a.s.l., 04–05.2012, A.V. Abramov.

COMPARATIVE MATERIAL. *N. borneensis* Deeleman-Reinhold, 2001 (Fig. 11): 1 ♂, 2 ♀♀ (RMNH), N Borneo, Mt. Kinabalu, Nat. Park Poring Hot Springs, Loc. 3 (6°2'N, 116°50'E), canopy fogging of *Aporosa* sp. (Euphorbiaceae), 23.02.1996, A. Floren, ex. coll. C.L. Deeleman-Reinhold: 2000: 704. – *Nusatidia* sp.: 2 ♀♀ (RMNH), Thailand, Khao Yai Nat. Park, secondary forest and forest near water fall, 2–4.03.1986, C.L. Deeleman-Reinhold & P.R. Deeleman.

ETYMOLOGY. Named after the country of origin, Vietnam; adjective.



Figs 8–11. Female copulatory organs of *Nusatidia vietnamensis* sp.n. (♀ holotype; 8–10) and *N. borneensis* Deeleman-Reinhold, 2001 from north Borneo (11), Clubionidae: 8, 11 — epigyne, ventral view; 9 — spermathecae, dorsal view; 10 — diagrammatic course of the insemination ducts. Scale bars: 0.1 mm. Abbreviations: AL — anterior loop; ASp — anterior spermathecae; CO — copulatory opening; FD — fertilization duct; GA — glandular appendage; PLL — posterior lateral loop; PSp — posterior spermathecae.

Рис. 8–11. Копулятивные органы *Nusatidia vietnamensis* sp.n. (♀ голотип; 8–10) и *N. borneensis* Deeleman-Reinhold, 2001 из северного Борнео (11), Clubionidae: 8, 11 — эпигина, вид снизу; 9 — сперматека, вид сверху; 10 — схема протоков копулятивных протоков. Масштаб: 0,1 мм. Сокращения: AL — передняя петля; ASp — передняя сперматека; CO — копулятивное отверстие; FD — оплодотворительный канал; GA — железистый придаток; PLL — заднебоковая петля; PSp — задняя сперматека.

**DIAGNOSIS.** By a similar ground plan of the female copulatory duct system, especially by the presence of the anterior loops, the new species is closely related to *N. borneensis* (cf. Deeleman-Reinhold [2001: figs 157–160] and Fig. 9), but can be distinguished by the following characters: (1) the relatively smaller anterior spermatheca, not covering the initial median part of the copulatory ducts and separated from each other by a distance equal to its diameter (in *N. borneensis*, the anterior spermatheca is larger, covering the copulatory ducts and separated by a distance much less than one third of its diameter or almost touching); (2) in ventral view, the copulatory openings are seen as semi-circles (full circles in *N. borneensis* or quite circular in *N. vietnamensis* **sp.n.**, as seen from behind); (3) the copulatory ducts close before entering the spermathecae with distinct lateral loops (without such loops in *N. borneensis*).

**DISTRIBUTION.** The type locality only (Map: 17).

**DESCRIPTION. MALE.** Unknown.

**FEMALE. Measurements.** PL 2.6, PW 1.6, AW 0.9, OL 4.9, OW 1.7. Eye diameters: AME 0.09, ALE 0.12, PME 0.10, PLE 0.12. Eye interdistances: AME–AME 0.07, AME–ALE 0.05, PME–PME 0.24, PME–PLE 0.11, AME–PME 0.13, ALE–PLE 0.06, clypeus AME 0.04, clypeus ALE 0.05. Leg and pedipalp measurements: pedipalp 2.12 (0.70, 0.32, 0.45, –, 0.65); leg I 7.0 (2.1, 0.9, 2.0, 1.3, 0.7); leg II 7.9 (2.4, 1.0, 2.2, 1.6, 0.7); leg III 6.1 (1.8, 0.7, 1.5, 1.5, 0.6); leg IV 9.3 (2.7, 0.7, 2.3, 2.9, 0.7). Leg formula. 4213. **Spination:** pedipalp Fm: 131, Pt 010, Tb 2121, Tr 1014; Fm I 230, II 231, III–IV 030; Pt I 021 (thin bristles); Tb I–II 0104, III 2122, IV 2224; Mt I–II 000, III 3125, IV 3236. Chelicerae with 3 anterior and 2 posterior teeth. Prosoma, opisthosoma including spinnerets and anal tubercle elongated as shown for *N. camouflata* [Deeleman-Reinhold, 2001: figs 169–170]. **Coloration** in ethanol. Prosoma and opisthosoma pale yellow, without a pattern. Fovea short, longitudinal, indistinctly marked with black. Copulatory organs as characterised in the diagnosis (Figs 8–10): copulatory openings are situated in the posterior half of the epigyne, close to the posterior margin and a semi-circular posterior extension; copulatory ducts run first medially and in parallel from the posterior to anterior ends, then bend at the right angle into the anterior loop and backwards along the initial part, after the posterior lateral loop run into the spermathecae; the second pair of the spermathecae present, membranous, situated postero-laterally; ventral glandular appendage and dorsal fertilization duct present at the anterior spermathecae, close to the connection between the anterior and the posterior spermathecae.

### Selenopidae

#### *Selenops ab* Logunov et Jäger, **sp.n.** Figs 12–16.

**TYPE.** Holotype ♂ (ZMMU) from Vietnam, Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 11–26.4.2000, A.V. Abramov.

**COMPARATIVE MATERIAL.** *Selenops bursarius* Karsch, 1879 (Fig. 17): 4 ♂♂, 2 juveniles (SMF, 4742), Japan, Saga, 1882, W. Dönitz.

**ETYMOLOGY.** The specific name is an arbitrary combination of letters reflecting the small size of the new species by using the smallest number of letters to form a specific name; a noun in apposition.

**DIAGNOSIS.** It is a rather small species of the genus, with the body length 6.2 mm. By the massive RTA arising proximally from the tibia (Figs 12–14), the male palp of *Selenops ab* **sp.n.** is similar to those of *S. muehlmannorum* Jäger et Praxaysombath, 2011 and *S. bursarius* Karsch, 1879 (cf. Jäger,

Praxaysombath [2011] and Fig. 17), from which it can be distinguished by the following characters: (1) the ventral and dorsal [retrolateral] branches of RTA are of roughly similar width and length as seen in ventral view (the dorsal [retrolateral] branch is distinctly longer than the ventral one in *S. bursarius*; the ventral branch is much wider than the dorsal one in *S. muehlmannorum*); and (2) the embolus is narrow (as seen in ventral view), arising from the tegulum at eight o'clock-position (broad in *S. muehlmannorum*; arising from the tegulum at six o'clock-position in *S. bursarius*).

**DISTRIBUTION.** The type locality only (Map: 9).

**DESCRIPTION. MALE. Measurements:** PL 2.6, PW 3.0, AW 1.6, OL 3.6, OW 2.5. Eye diameters: AME 0.20, ALE 0.10, PME 0.21, PLE 0.25. Eye interdistances: AME–AME 0.14, AME–PME 0.03, ALE–PLE 0.27. Leg and pedipalp measurements: Pedipalp 3.27 (0.90, 0.58, 0.75, –, 1.04); Leg I 10.7 (3.2, 1.2, 2.9, 2.4, 1.0); Leg II 13.5 (4.3, 1.3, 3.8, 2.9, 1.2); Leg III 12.4 (4.5, 1.2, 3.2, 2.5, 1.0); Leg IV is absent. Leg formula: 231. Spination [leg IV is absent]: pedipalp Fm: 030, Pt 000, Tb 1200, Tr 2200; Fm I 230, II 030, III 030; Pt I–III 000; Tb I–II 0008, III 0000; Mt I–II 0006, III 0000. Chelicerae with 3 anterior and 2 posterior teeth; chelicerae with 1 bristle close to the retromargin of fang base. **Coloration** in ethanol (Figs 15–16). Body yellowish brown, with a faint pattern. Prosoma dorsally with 2 serrated dark longitudinal bands and wide dark marginal bands, fovea is marked with dark patch. Sternum yellowish brown, with dark margin, gnathocoxae, labium and chelicerae darker. Legs with indistinct banded pattern and small spine patches. Opisthosoma dorsally with irregularly shaped dark patches in its anterior half and a wide light patch in its posterior half; ventrally pale yellowish brown, with epiandrium sclerotised and dark anterior margin in front of spinnerets. Palp as characterised in the diagnosis (Figs 12–14): palpal tibia slightly wider than long, only with dorsal branch of RTA barely extending beyond distal tibia; embolus slightly curved, with a moderately broad proximal and narrow distal part (prolateral view), its tip indented; conductor originates from the tegulum at 12-o'clock-position, stout; median apophysis originates almost centrally from the tegulum, with two apices, one distad and another almost ventrad.

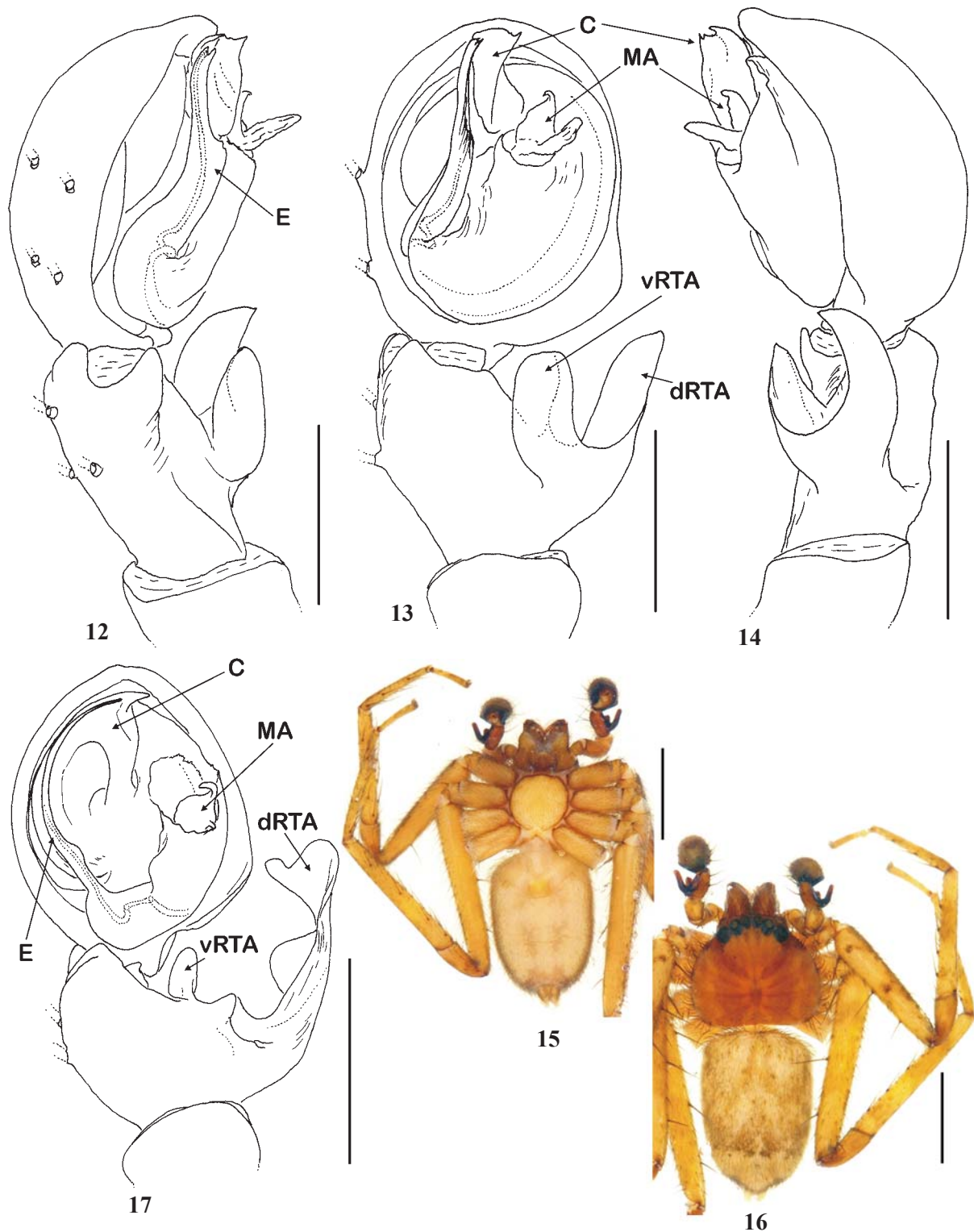
**FEMALE.** Unknown.

### Sparassidae

#### *Heteropoda tetrica* Thorell, 1897

**MATERIAL. VIETNAM:** 1 ♀ (ZMMU), Dien Bien Prov., Muong Nhe Distr., Sin Thau Commune (22°21'54"N, 102°14'15"E) [1], 800 m a.s.l., June 2014, A.V. Abramov; 2 ♂♂, 3 ♀♀ (MMUE, G7565.6), Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 11–26.04.2000, A.V. Abramov; 2 ♀♀ (ZMMU), Ha Tinh Prov., Cam Xuyen Distr., Ke Go Nat. Res., nr. Mui Tru Station (18°06'30"N, 106°01'01"E) [11], 40 m a.s.l., 7–14.04.2015 A.V. Abramov; 1 ♂, 8 ♀♀ (ZMMU), Kon Tum Prov., eastern part of Chu Mom Ray Nat. Park, nr. Ro Koi Station (14°30'18"N, 107°43'22"E) [13], 700 m a.s.l., 26.03–6.04.2015, A.V. Abramov; 1 ♂ (ZMMU), Dong Nai Province, Vinh Cuu Distr., Vinh Cuu Nat. Res., (= Ma Da Forest), TW Cuc Forest Station (11°22'51"N, 107°03'44"E) [18], c. 75 m a.s.l., January–February 2010, A.V. Abramov; 3 ♀♀ (MMUE, G7565.5), Dong Nai Prov., Cat Tien Nat. Park [19], October–December 2011, A. Goncharov.

**COMMENTS.** Common Oriental species, known from southern China (Yunnan and Guanxi), south-eastward to Malaysia and Indonesia (Sumatra) [Eusemann, Jäger, 2009; WSC, 2015]; hitherto recorded from Vietnam (Cat Ba Island nr. Haifon, Phong Nha-Ke Bang Nat. Park in Quang Binh Prov., and Sac Ha Vil. in Cao Bang Prov.) by Eusemann & Jäger [2009].



Figs 12–17. Copulatory organs and habitus of *Selenops ab* sp.n. (♂ holotype; 12–16) and *S. bursarius* Karsch, 1879 from Japan (17), Selenopidae: 12 — male palp, prolatateral view; 13, 17 — ditto, ventral view; 14 — ditto, retrolateral view; 15 — habitus, ventral view; 16 — ditto, dorsal view. Scale bars: (12–14, 17) 0.5 mm, (15–16) 2 mm. Abbreviations: C — conductor; E — embolus; dRTA — dorsal branch of RTA; MA — median apophysis; vRTA — ventral branch of RTA.

Рис. 12–17. Копулятивные органы и габитус *Selenops ab* sp.n. (♂ голотип; 12–16) и *S. bursarius* Karsch, 1879 из Японии (17), Selenopidae: 12 — палепа самца, вид медиально; 13, 17 — тоже, снизу; 14 — тоже, сзади-латерально; 15 — габитус, вид снизу; 16 — тоже, сверху. Масштаб: (12–14, 17) 0,5 мм, (15–16) 2 мм. Сокращения: С — кондуктор; Е — эмболюс; dRTA — дорзальная ветвь RTA; MA — медиальный апофиз; vRTA — вентральная ветвь RTA.

*Heteropoda venatoria* (Linnaeus, 1767)

MATERIAL. VIETNAM: 1 ♂ (ZMMU), Ba Vi Distr., c. 50 km W of Hanoi, Ba Vi Nat. Park, nr. Tanh Linh Vil. (21°05'49.6''N, 105°24'07.3''E) [6], 100 m a.s.l., May 2013, A.V. Abramov; 1 ♀ (MMUE, G7565.4), Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 11–26.04.2000, A.V. Abramov; 1 ♂ (MMUE, G7565.2), Ha Tinh Prov., Cam Xuyen Distr., Ke Go Nat. Res., nr. Mui Tru Station (18°06'30''N, 106°01'01''E) [11], 40 m a.s.l., 7–14.04.2015 A.V. Abramov; 1 ♀ (ZMMU), Kon Tum Prov., eastern part of Chu Mom Ray Nat. Park, nr. Ro Koi Station (14°30'18''N, 107°43'22''E) [13], 700 m a.s.l., 26.03–6.04.2015, A.V. Abramov; 1 ♀ (ZMMU), Binh Phuoc Prov., c. 13 km NE of Bu Gia Map Vil., Bu Gia Map Nat. Park (12°11'37''N, 107°12'21''E) [16], c. 540 m a.s.l., January 2010, A.V. Abramov; 1 ♀ (ZMMU), Dong Nai Prov., Vinh Cuu Distr., Vinh Cuu Nat. Res., (= Ma Da Forest), TW Cuc Forest Station (11°22'51''N, 107°03'44''E) [18], c. 75 m a.s.l., January–February 2010, A.V. Abramov; 1 ♂ (MMUE, G7565.3), Dong Nai Prov., Cat Tien Nat. Park [19], October–December 2011, A. Goncharov; 1 ♂, 1 ♀ (ZMMU), Ba Ria – Vung Tau Prov., Central part of Con Son Island (8°42'N, 106°35'E) [22], 5–300 m a.s.l., June 2010, A.V. Abramov.

COMMENTS. Widespread Pantropical species [WSC, 2015]; hitherto recorded from a number of localities in Vietnam by Simon [1886], Hogg [1922: sub *Palystes ledlevi*; see Ono et al., 2012] and Jäger [2014]: Saigon, Dran in Lam Dong Prov., Ky Thuong, Nam Cat Tien, Haifon, Cat Ba Island nr. Haifon, Koshinin, Ma Da in Dong Nai Prov., Vuih, Qua Phu in Thuan Hai Prov., and Buon Ya Wan in Daklak Prov.

*Pseudopoda namkhan* Jäger, Pathoumthong et Vedel, 2006

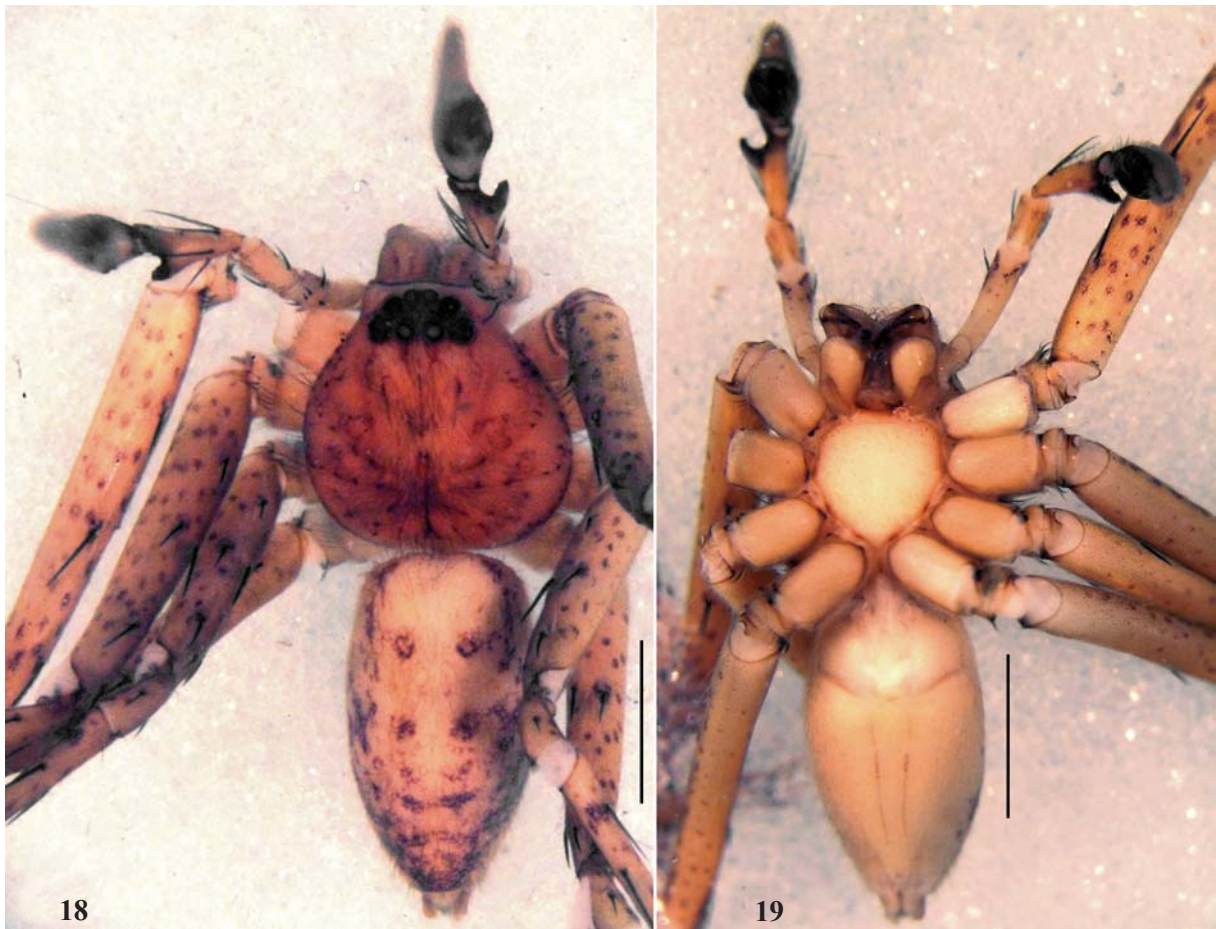
*Pseudopoda namkhan* Jäger, Pathoumthong et Vedel, 2006: 222, figs 20–28, 35–40 (D ♂♀).

*P. houaphan* Jäger, 2007: 55, figs 93–95 (D ♀). **Syn.n.**

MATERIAL. VIETNAM: 3 ♀♀ (ZMMU), Lao Cai Prov., Van Ban Distr., Nam Xay Commune (21°58'26''N, 104°2'28''E) [3], 900–1200 m a.s.l., 19.03–15.04.2005, A.V. Abramov.

COMMENTS. Oriental species known from northern Laos (Luangprabang, Houaphan), southern China (Yunnan) and northern Vietnam [WSC, 2015; present data]; first record for Vietnam (Map: 3).

The three studied females show quite a high variation in the shape (width/length ratio) of the epigynal field and lateral lobes. Having compared the specimens from the type locality (paratypes from S Yunnan, China) and from Houaphan in NE Laos (the holotype of *P. houaphan*), it has become clear that the conformation of the copulatory organs in the latter species falls within the currently understood strong intraspecific variation, and thus the species name *P. houaphan* is to be considered a junior synonym of *P. namkhan*. The variation of copulatory organs in this species is indeed high and similar to those described in other species distributed in this region: viz., *Rhitymna plana* Jäger, 2003 [Jäger, 2003, 2007]; *Dendrolycosa robusta* (Thorell, 1895) [Jäger, 2011]; and *Ctenus simplex* Thorell, 1897 [Jäger, 2012b].



Figs 18–19. Habitus of *Pseudopoda ohne* sp.n. (♂ holotype), Sparassidae: 18 — dorsal view; 19 — ventral view. Scale bars: 2 mm.  
Рис. 18–19. Габитус *Pseudopoda ohne* sp.n. (♂ голотип), Sparassidae: 18 — вид сверху; 19 — вид снизу. Масштаб: 2 мм.



*Pseudopoda ohne* Logunov et Jäger, **sp.n.**

Figs 18–23

TYPE. Holotype ♂ (ZMMU) from Vietnam, Kon Tum Prov., E-part of Chu Mom Ray Nat. Park, near Ro Koi Station (14°30'18" N, 107°43'22" E) [13], 700 m a.s.l., 26.09–06.04.2015, A.V. Abramov.

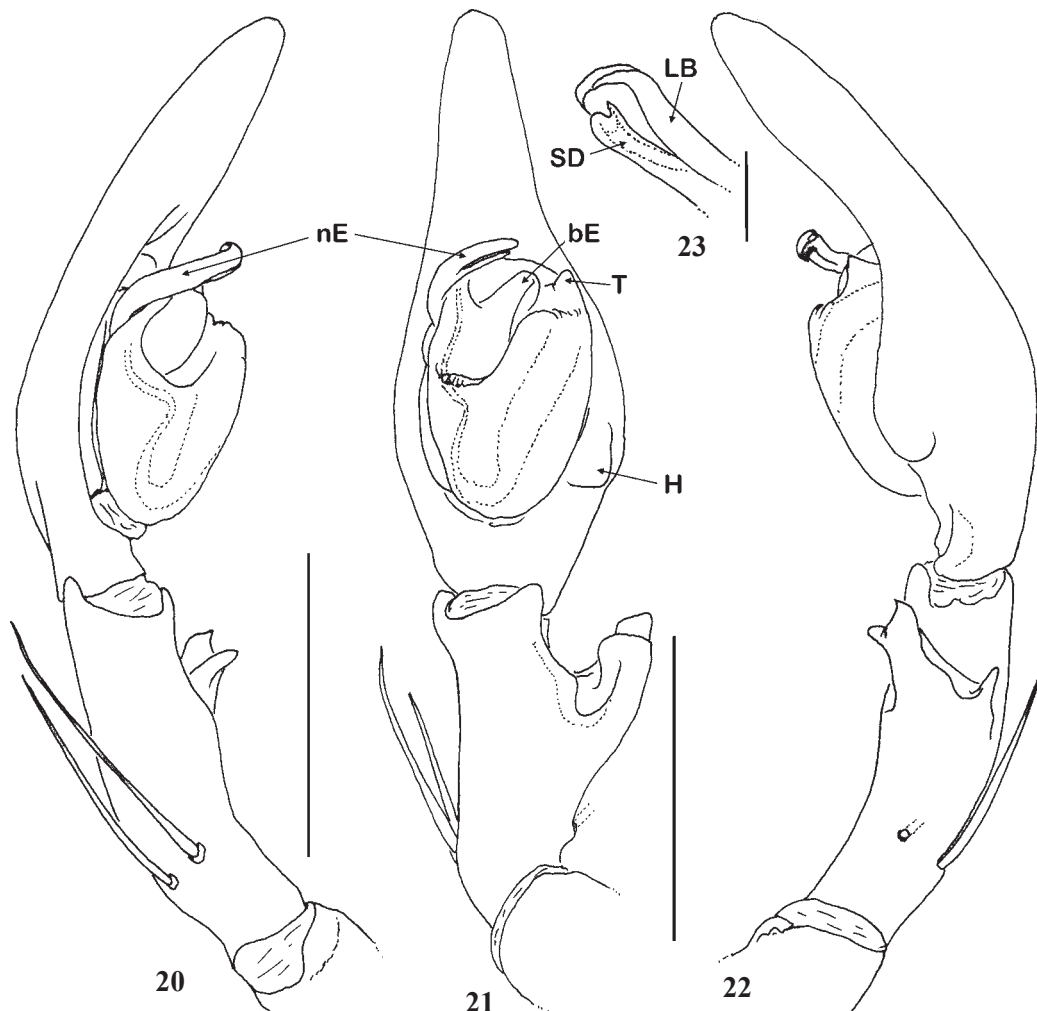
ETYMOLOGY. The specific epithet is derived from the German 'ohne' meaning 'without' and reflecting the fact that this species is characterized by the reduced conductor; a noun in apposition.

DIAGNOSIS. By the reduced conductor (Figs 20–23), the new species is similar to *Pseudopoda wu* Jäger, Li et Krehenwinkel, 2015, *P. tji* Jäger, 2015, *P. pingu* Jäger, 2015, *P. bangaga* Jäger, 2015, *P. wamwo* Jäger, 2015 and *P. martin-schuberti* Jäger, 2015 (cf. Jäger [2015] and Jäger et al. [2015]). By the short embolus directed retrolaterad (Fig. 21), the embolic conformation is most similar to that of *P. confusa* Jäger, Pathoumthong et Vedel, 2006 (cf. Jäger et al. [2006]). From all the related species, *P. ohne* **sp.n.** can be distin-

guished by the widened embolic base and the presence of disto-retrolateral tegular tooth.

DISTRIBUTION. The type locality only (Map: 13).

DESCRIPTION. MALE. *Measurements*. PL 3.5, PW 3.2, AW 1.6, OL 4.2, OW 2.3. Eye diameters: AME 0.18, ALE 0.27, PME 0.22, PLE 0.28. Eye interdistances: AME–AME 0.12, AME–ALE 0.05, PME–PME 0.19, PME–PLE 0.28, AME–PME 0.28, ALE–PLE 0.24, clypeus AME 0.30, clypeus ALE 0.27. Leg and pedipalps: pedipalp 5.8 (1.8, 0.8, 1.3, –, 1.9); leg I 24.1 (6.3, 2.0, 7.3, 6.4, 2.1); leg II 24.2 (6.5, 2.0, 7.4, 6.3, 2.0); leg III 17.3 (5.0, 1.5, 5.0, 4.4, 1.4); leg IV 21.8 (6.2, 1.5, 6.0, 6.4, 1.7). Leg formula. 2143. *Spination*: pedipalp Fm: 131, Pt 010, Tb 2111; Fm I–III 323, IV 322; Pt I–III 101, IV 101/001; Tb I 2226, II–IV 2126; Mt I–II 1014, III 2025, IV 3037. Chelicerae with 3 anterior, 4 posterior teeth and ca. 30 denticles in a patch and a short row; chelicerae with one bristle close to the retro-margin of fang base. *Coloration* in ethanol (Figs 18–19).



Figs 20–23. Male palp of the holotype of *Pseudopoda ohne* **sp.n.**, Sparassidae: 20 — prolateral view; 21 — ventral view; 22 — retrolateral view; 23 — embolic tip, retrolateral view. Scale bars: (20–22) 1 mm, (23) 0.1 mm. Abbreviations: bE — basal embolic apophysis; H — hump on retrolateral cymbial bulge; LB — larger branch of embolus; nE — narrow apical part of embolus; SD — sperm duct; T — disto-retrolateral tegular tooth.

Рис. 20–23. Пальпа самца, голотипа *Pseudopoda ohne* **sp.n.**, Sparassidae: 20 — вид медиально; 21 — вид снизу; 22 — вид сзади-латерально; 23 — вершина эмболуса, вид сзади-латерально. Масштаб: (20–22) 1 мм, (23) 0,1 мм. Сокращения: bE — базальный апофиз эмболуса; H — выступ на задне-латеральном бугре цимбиума; LB — более крупная ветвь эмболуса; nE — более узкая, апикальная часть эмболуса; SD — семенной каналец; T — дистально-задне-латеральный зуб тегулула.

Prosoma and opisthosoma yellowish brown, with a brown pattern. Dorsal shield of prosoma with striae marked with dots, additional dark setae and dark margin. Sternum, labium, gnathocoxae and ventral coxae pale yellowish brown, without a pattern. Each chelicera frontally with 3 longitudinal stripes. Legs dotted and with spine patches. Opisthosoma dorsally with muscle sigilla marked, with chevrons in its posterior half; laterally with an irregular dark pattern; ventrally pale yellowish brown, without a pattern. Palp as characterised in the diagnosis (Figs 20–23): cymbium with long, roughly triangular tip and a small hump on the retrolateral bulge; RTA originates from Tb medially to distally, with three short apices, none of which distally extends beyond the distal end of Tb; embolus distally furcate, originating from the tegulum at 9:30 o'clock-position, with a distinct basal apophysis running parallel to a narrow apical part of the embolus as seen in ventral view; the sperm-duct carrying part of the embolus is situated proximo-dorsally of its larger branch, and with an indented tip.

FEMALE. Unknown.

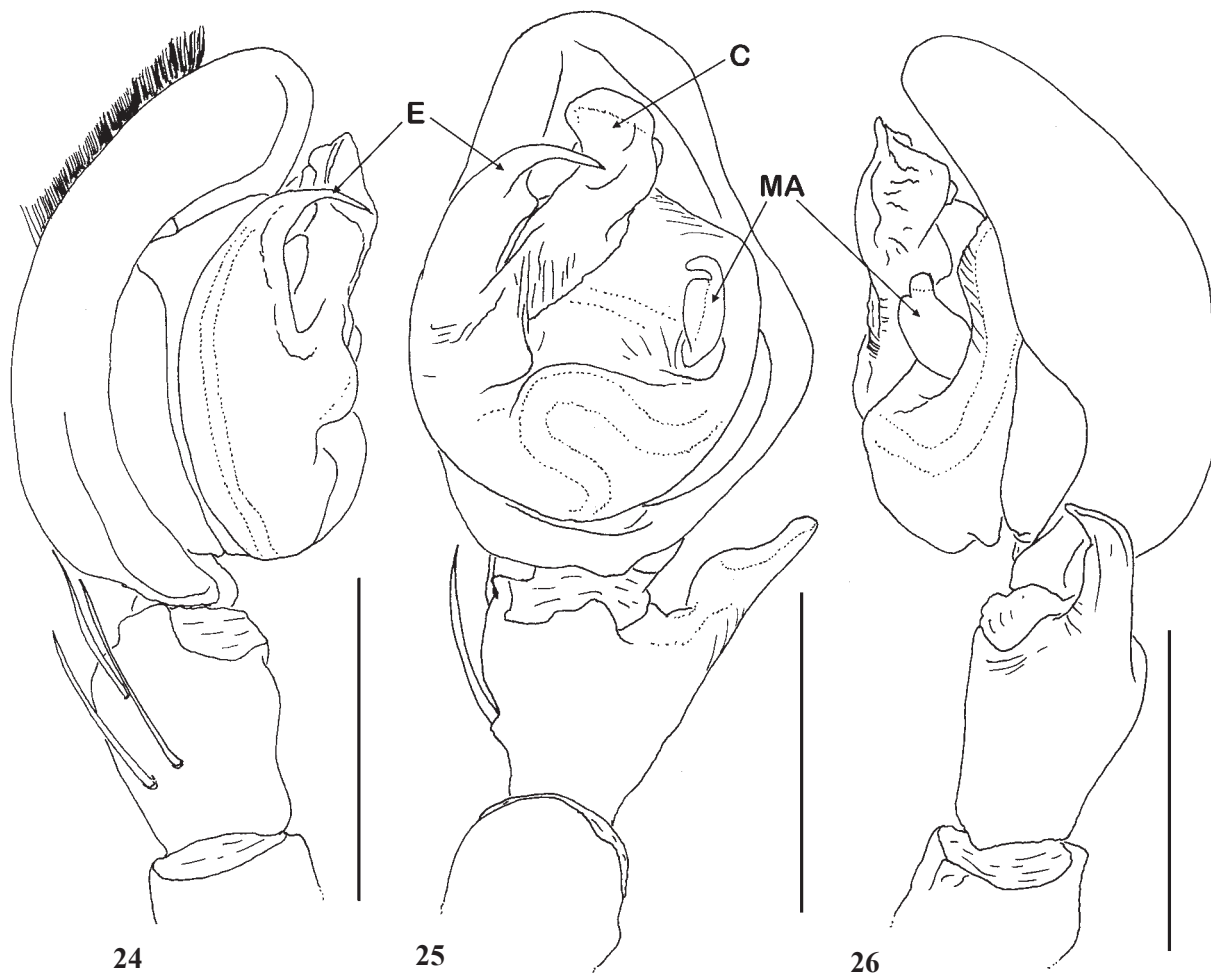
*Thelcticopis buu* Logunov et Jäger, **sp.n.**

Figs 24–28.

TYPE. Holotype ♂ (ZMMU) from Vietnam, Ba Ria-Vung Tan Prov., Binh-Chau-Phuoc Buu Nat. Res. (10°32'N, 107°29'E) [21], 50 m a.s.l., June 2007, A.V. Abramov.

ETYMOLOGY. The specific epithet is a noun in apposition taken from the type locality, Binh-Chau-Phuoc Buu Nat. Res. in Vietnam.

DIAGNOSIS. By a small body size and the conformation of the male palp (Figs 24–26), the new species is similar to *Thelcticopis zhengi* Liu, Li et Jäger, 2010 from China [cf. Liu et al., 2010], but can be distinguished from it by the following characters: (1) the embolus is freely visible in ventral view (covered by the tegular apophysis in *T. zhengi*); (2) RTA is simple, with one apex (with two apices in *T. zhengi*); (3) the median apophysis is directed distad in ventral view (retrolateral in *T. zhengi*). There are two species described from the Philippines that display a similar palpal conformation [see Barrion, Litsinger, 1995]: *T. kianganensis* Barrion et Litsinger, 1995 having the embolus freely visible and of the similar



Figs 24–26. Copulatory organs of *Thelcticopis buu* **sp.n.** (♂ holotype), Sparassidae: 24 — male palp, prolateral view; 25 — ditto, ventral view; 26 — ditto, retrolateral view. Scale bars: 1 mm. Abbreviations: E — embolus; MA — median apophysis; C — conductor.

Рис. 24–26. Копулятивные органы *Thelcticopis buu* **sp.n.** (♂ голотип), Sparassidae: 24 — пальпа самца, вид медиально; 25 — тоже, снизу; 26 — тоже, задне-латерально. Масштаб: 1 мм. Сокращения: E — эмболюс; MA — медиальный апофиз; C — кондуктор.

length as that in *T. buu sp.n.*, but with the RTA complex (i.e., with three apices); and *T. simplerta* Barrion et Litsinger, 1995 with the RTA simple (i.e., with one apex), but with the long embolus, originating at six o'clock-position and running more than a semicircle.

DISTRIBUTION. The type locality only (Map: 21).

DESCRIPTION. MALE. *Measurements*. PL 5.1, PW 4.2, AW 2.4, OL 5.5, OW 3.5. Eye diameters: AME 0.27, ALE 0.20, PME 0.20, PLE 0.21. Eye interdistances: AME–AME 0.21, AME–ALE 0.27, PME–PME 0.48, PME–PLE 0.54, AME–PME 0.22, ALE–PLE 0.26, clypeus AME 0.23, clypeus ALE 0.17. Leg and pedipalps: pedipalp 5.1 (1.8, 0.7, 0.8, –, 1.8); leg I 17.3 (4.7, 2.5, 5.0, 4.0, 1.1); leg II 16.9 (4.8, 2.5, 4.6, 3.9, 1.1); leg III 13.4 (4.0, 2.0, 3.4, 3.0, 1.0); leg IV 17.3 (5.0, 1.9, 4.5, 4.6, 1.3). Leg formula (14)23. *Spination*: pedipalp Fm: 131, Pt 101, Tb 2001; Fm I–II 323, III 322, IV 321; Pt I–IV 000; Tb I–II 202 10, III–IV 2026; Mt I–II 2022, III 3033, IV 3035. Chelicerae with 3 anterior and 5 posterior teeth; chelicerae with 1 bristle close to the retromargin of fang base. *Coloration* in ethanol (Figs 27–28). Yellowish to reddish brown. Prosoma dorsally reddish brown, with fovea in its posterior quarter, short and few dark lines in head part accompanied with bristles. Sternum yellowish brown, coxae ventrally pale yellowish brown. Gnathocoxae and labium deep yellowish brown, with white distal lips. Chelicerae frontally with 3 longitudinal dark lines. Legs yellowish brown, without a pattern. Opisthosoma dorsally with a light heart region and chevrons in its posterior half; laterally with irregular small patches; ventrally pale yellowish brown, slightly stronger sclerotised and darker in front of the epigastric furrow. Palp as characterised in the diagnosis (Figs 24–26): RTA originates from tibia distally, simple, i.e. with one apex which appears blunt in ventral view and slightly curved in retrolateral view; cymbium dorsally with a patch of setae in its distal half; embolus originates from the tegulum from 9 to

9.30 o'clock-position, proximal part broad, distal part narrow, curved and pointed; conductor originates from the tegulum close to the embolic base, narrower proximally than distally; median apophysis with a distinct prolateral incision seen in ventral view; sperm duct wide and S-shaped in the proximal side of tegulum, narrow and only slightly curved in the prolateral side of tegulum.

FEMALE. Unknown.

### Thomisidae

*Lysiteles conicus* Tang, Yin, Peng, Ubick et Griswold, 2007

MATERIAL. VIETNAM: 1 ♀ (ZMMU), Ba Ria – Vung Tau Prov., Binh Chau – Phuoc Buu Nat. Res. (10°32'N, 107°29'E) [21], 50 m a.s.l., June 2007, A.V. Abramov.

COMMENTS. To date, the species has been known from the type locality only: China (Yunnan) [Tang et al., 2007]; first record for Vietnam (Map: 21).

*Lysiteles dentatus* Tang, Yin, Peng, Ubick et Griswold, 2007

MATERIAL. VIETNAM: 1 ♂ (ZMMU), Ba Ria – Vung Tau Prov., Binh Chau – Phuoc Buu Nat. Res. (10°32'N, 107°29'E) [21], 50 m a.s.l., June 2007, A.V. Abramov.

COMMENTS. To date, the species has been known from the type locality only: China (Yunnan) [Tang et al., 2007]; first record for Vietnam (Map: 21).

*Lysiteles punctiger* Ono, 2001

MATERIAL. VIETNAM: 5 ♂♂ (ZMMU), Ba Ria – Vung Tau Prov., Binh Chau – Phuoc Buu Nat. Res. (10°32'N, 107°29'E) [21], 50 m a.s.l., June 2007, A.V. Abramov.

COMMENTS. To date, the species has been known from China (Yunnan) and Bhutan [Tang et al., 2008; WSC, 2015]; first record for Vietnam (Map: 21).



27



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Figs 27–28. Habitus of *Thecticopis buu sp.n.* (♂ holotype), Sparassidae: 27 — dorsal view; 28 — ditto, ventral view. Scale bars: 2 mm.  
Рис. 27–28. Габитус *Thecticopis buu sp.n.* (♂ голотип), Sparassidae: 27 — вид сверху; 28 — вид снизу. Масштаб: 2 мм.

The identification of these males has been done on the basis of Tang et al. [2008: figs 14a–j]. Yet, the studied males from Vietnam differ from those described and illustrated in the latter work in their body coloration, viz. in having the yellow carapaces with dark brown clypeus and margins (completely brown in the Chinese specimens).

*Lysiteles torsivus* Zhang, Zhu et Tso, 2006

MATERIAL. VIETNAM: 1 ♂ (ZMMU), Ba Ria – Vung Tau Prov., Binh Chau – Phuoc Buu Nat. Res. (10°32'N, 107°29'E) [21], 50 m a.s.l., June 2007, A.V. Abramov.

COMMENTS. To date, the species has been known from China (Yunnan) and Taiwan [Tang et al., 2008; WSC, 2015]; first record for Vietnam (Map: 21).

*Lysiteles vietnamensis* Logunov et Jäger, **sp.n.**

Figs 29–32.

TYPES. Holotype ♂ (ZMMU) from Vietnam, Ba Ria – Vung Tau Prov., Binh Chau – Phuoc Buu Nat. Res. (10°32'N, 107°29'E) [21], 50 m a.s.l., June 2007, A.V. Abramov. – Paratypes: 4 ♀♀ (ZMMU), together with the holotype.

ETYMOLOGY. Named after the country of origin, Vietnam; adjective.

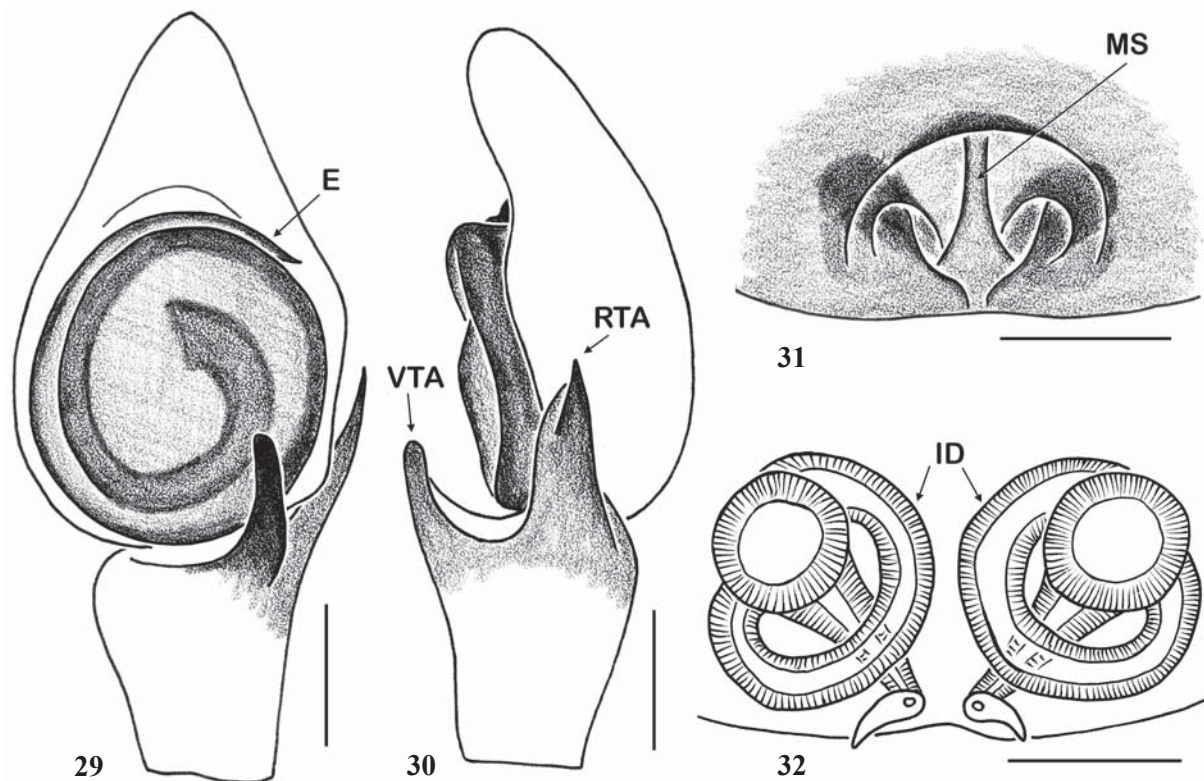
DIAGNOSIS. From all the known *Lysiteles* species (see WSC [2015] for a list of species and references), *L. vietnamensis* **sp.n.** differs by the following characters: the flat and round tegulum, the shape of the embolus, VTA and RTA (Figs 29–30) in the male, and the presence and shape of the

median septum of the epigyne and the unique conformation of the spermathecae with insemination ducts making almost a complete turn around the axis (Figs 31–32) in the female.

DISTRIBUTION. The type locality only (Map: 21).

DESCRIPTION. MALE (the holotype). *Measurements*.

Carapace: 1.18 long, 1.15 wide. Abdomen: 1.35 long, 1.18 wide. Clypeus 0.17 long, chelicera 0.31 long. Eye sizes and interdistances: MOA-WA 0.24, MOA-WP 0.31, MOA-L 0.26, AME 0.07, ALE 0.08, PME 0.05, PLE 0.06, AME-AME 0.13, AME-ALE 0.11, PME-PME 0.21, PME-PLE 0.16. Length of leg segments: I: 1.85 + 0.60 + 1.45 + 1.40 + 1.00; II: 1.80 + 0.60 + 1.45 + 1.35 + 0.95; III: 0.85 + 0.38 + 0.60 + 0.50 + 0.38; IV: 0.83 + 0.33 + 0.58 + 0.55 + 0.40. Spination of leg I: Fm d 1-1-1-1-1, pr 1-1-1-1, rt 1-1; Pt pr and rt 0-1-0; Tb d 0-1, pr 1-1, rt 0-1, v 2-2; Mt pr and rt 1-1-1ap, v 2-2. *Coloration* in alcohol. Carapace light yellow, with two wide, longitudinal, light brown stripes behind PLEs. Clypeus, labium, maxillae and chelicerae light yellow. Abdomen light yellow, without dorsal patten and ventrally and on sides with large brown patches near the spinnerets. Book-lung covers yellow; spinnerets brownish yellow. Legs I and II light yellow, with light brown wide rings. Legs III and IV entirely light yellow. Palps light yellow. Palpal structure as in Figs 29–30; RTA long, with a large sharp tooth at its apex; VTA long and narrow; tegulum flat and round; embolus originates at about seven o'clock-position and terminates at about two o'clock-position.



Figs 29–32. Copulatory organs of *Lysiteles vietnamensis* **sp.n.** (♂ holotype, ♀ paratype), Thomisidae: 29 — male palp, ventral view; 30 — ditto, retrolateral view; 31 — epigyne, ventral view; 32 — spermathecae, dorsal view. Scale bars: 0.1 mm. Abbreviations: E — embolus; ID — insemination ducts; MS — median septum; RTA — retrolateral tibial apophysis; VTA — ventral tibial apophysis.

Рис. 29–32. Копулятивные органы *Lysiteles vietnamensis* **sp.n.** (♂ голотип, ♀ паратип), Thomisidae: 29 — палпа самца, вид снизу; 30 — тоже, задне-латерально; 31 — эпигина, вид снизу; 32 — сперматека, вид сверху. Масштаб: 0,1 мм. Сокращения: E — эмболоус; ID — копулятивные каналы; MS — медиальный септум; RTA — задне-латеральный голенный отросток; VTA — ventральный голенный отросток.

FEMALE (the illustrated ♀). *Measurements*. Carapace: 1.45 long, 1.33 wide. Abdomen: 2.35 long, 2.13 wide. Clypeus 0.21 long, chelicera 0.65 long. Eye sizes and inter-distances: MOA-WA 0.31, MOA-WP 0.35, MOA-L 0.34, AME 0.09, ALE 0.16, PME 0.04, PLE 0.13, AME-AME 0.15, AME-ALE 0.14, PME-PME 0.24, PME-PLE 0.29. Length of leg segments: I: 1.38 + 0.55 + 1.18 + 0.90 + 0.65; II: 1.48 + 0.55 + 1.25 + 1.03 + 0.65; III: 1.00 + 0.38 + 0.73 + 0.60 + 0.40; IV: 1.05 + 0.40 + 0.85 + 0.64 + 0.38. Spination of leg I: Fm d and pr 0-1-1; Pt rt 0-1-0; Tb d and pr 0-1-1, rt 1-1-1, v 2-2; Mt pr and rt 1-1, v 2-2-2ap. *Coloration* in alcohol as in the male, but without light brown rings on legs I and II and large brown patches ventrally near the spinnerets; abdomen with two wide longitudinal, interrupted brownish stripes on dorsum and narrower stripes on abdominal sides. Epigyne and spermathecae as in Figs 31–32: epigyne with a narrow median septum and wide anterior rim; copulatory openings separated and wide; insemination ducts make almost a complete turn around the axis; receptacles enema-shaped.

*Xysticus croceus* Fox, 1937

MATERIAL. VIETNAM: 1 ♂ (MMUE, G7565.20), Lao Cai Prov., c. 6 km W of Sa Pa, north slope of Fansipan Mt. area, Hoang Lien Nat. Park, nr. Tram Ton Station (22°21'N, 103°46'E) [2], 1930–2000 m a.s.l., May 2008, A.V. Abramov; 6 ♂♂, 1 ♀ (ZMMU), Lao Cai Prov., Van Ban Distr., Nam Xay Commune (21°58'26"N, 104°02'28"E) [3], 900–1200 m a.s.l., 19.03–15.04.2005, A.V. Abramov.

COMMENTS. Common east Asian species, known from Nepal and Bhutan in the west, throughout China to Japan in the east, south-eastward to Taiwan [WSC, 2015]; first record for Vietnam (Map: 2,3).

**Salticidae**

*Burmattus pococki* (Thorell, 1895)

MATERIAL. VIETNAM: 1 ♂, 1 ♀ (ZMMU), Ha Tinh Prov., Cam Xuyen Distr., Ke Go Nat. Res., nr. Mui Tru Station (18°06'30"N, 106°01'01"E) [11], 40 m a.s.l., 7–14.04.2015 A.V. Abramov.

COMMENTS. Oriental species, distributed from Bhutan and Myanmar in the west, throughout southern China to Vietnam and Japan in the east [WSC, 2015; Metzner, 2015]; hitherto recorded from a number of localities in Vietnam by Żabka [1985: sub *Plexippus p.*], Peng, Li [2003] and Pham et al. [2004]: Hanoi (incl. Xuan Dinh, Thu Le and Bac Thao), Gao Bao and Viet Lann villages in Ha Giang Prov., Phu Que in Nghe An Prov., Cuc Phuong in Ninh Binh Prov., Thuong Linh (nr. Phu Ly), Tab Linch Vil. in Son Tay Prov., and Bac Thai.

*Carrhotus sannio* (Thorell, 1877)

MATERIAL. VIETNAM: 1 ♂ (ZMMU), Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 11–26.04.2000, A.V. Abramov.

COMMENTS. Widespread Oriental species, distributed from Afghanistan and India in the west to Malaysia and the Philippines in the east [WSC, 2015; Metzner, 2015]; hitherto recorded from a number of localities in Vietnam by Żabka [1985], Peng, Li [2003] and Pham et al. [2004]: Hanoi, c. 120 km NW of Vinh in Nghe An Prov., Chine, Cuc Phuong in Ninh Binh Prov., Thanh Ha in Hoa Binh Prov., Coc Xan in Lao Cai Prov., Quang Ninh, Vo Nhai, Bac Thai, Tab Linch and Tan Linh villages in Son Tay Prov., Viet Lann Vil. in Ha Giang Prov., Quang Hoa in Cao Bang Prov., Sac Ha Vil. in Cao Bang Prov., and Vinh Phu.

*Epeus glorijs* Żabka, 1985

MATERIAL. VIETNAM: 5 ♂♂ (ZMMU), Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 11–26.04.2000, A.V. Abramov.

COMMENTS. Poorly documented Oriental species, recorded from China (Guangxi), Malaysia and Vietnam [Song et al., 1999; WSC, 2015; Metzner, 2015]; in Vietnam, it has been hitherto known from the type locality only: Phu Que, c. 80 km NW of Vinh, Nghe An Prov. [Żabka, 1985], also listed by Pham et al. [2004].

*Foliabitus scutigerus* (Żabka, 1985)

MATERIAL. VIETNAM: 2 ♂♂ (ZMMU), Lao Cai Prov., Van Ban Distr., Nam Xay Commune (21°58'26"N, 104°02'28"E) [3], 900–1200 m a.s.l., 19.03–15.04.2005, A.V. Abramov.

COMMENTS. To date, this species has been known from the male holotype and from the type locality only: Cuc Phuong in Ninh Binh Prov. [Żabka, 1985: sub *Laufeia s.*], also listed by Pham et al. [2004: sub *Laufeia s.*].

*Hasarius adansonii* (Audouin, 1826)

MATERIAL. VIETNAM: 1 ♂ (MMUE, G7565.23), Son La Prov., Phu Yen Distr., Suoi To Commune, nr. Suoi Khang Vil., c. 10 km NW of Phu Yen Town (21°20'13.2"N, 104°36'29.7"E) [4], 1100 m a.s.l., May 2013, A.V. Abramov; 2 ♀♀ (MMUE, G7565.24), Ba Vi Distr., c. 50 km W of Hanoi, Ba Vi Nat. Park, nr. Ba Vi Resort (21°04'57.9"N, 105°22'54.1"E) [6], 35–400 m a.s.l., May 2013, A.V. Abramov; 2 ♂♂ (PSU), Binh Thuan Prov., c. 10 km E of Phan Thiet (10°56'N, 108°11'E) [20], on sea shore, 15.03.2001, T. Tuneva.

COMMENTS. Cosmopolitan species [WSC, 2015]; hitherto recorded from a number of localities in Vietnam by Hogg [1922: sub *Tachyscarthmus annamensis*], Żabka [1985], Peng, Li [2003], Pham et al. [2004], and Pham [2012]: Hanoi, Chine – 80 km SW of Hanoi, Dran in Lam Dong Prov., Quang Hoa in Cao Bang Prov., Quang Ninh, and Long Son Prov.

*Laufeia squamata* (Żabka, 1985), **comb.n.**

Figs 33–39.

MATERIAL. VIETNAM: 1 ♂, 2 ♀♀ (ZMMU), Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 11–26.04.2000, A.V. Abramov.

DIAGNOSIS. This species is closest to the type species of *Laufeia* – *L. aenea* Simon, 1889 known from the eastern Palaearctic Region (China, Korea, Japan; WSC [2015]) — from which it can easily be distinguished by the conformation of the embolic division and the presence of the ventral tibial apophysis in the male (Figs 33–34), and by the sizes and proportions of the receptacles seen through the integument in the female (cf. Figs 37–38 and figs 84–89 in Bohdanowicz, Prószyński [1987]); surprisingly, the spermathecae of *L. aenea* has never been figured yet. The male of *L. squamata* is illustrated and described here for the first time.

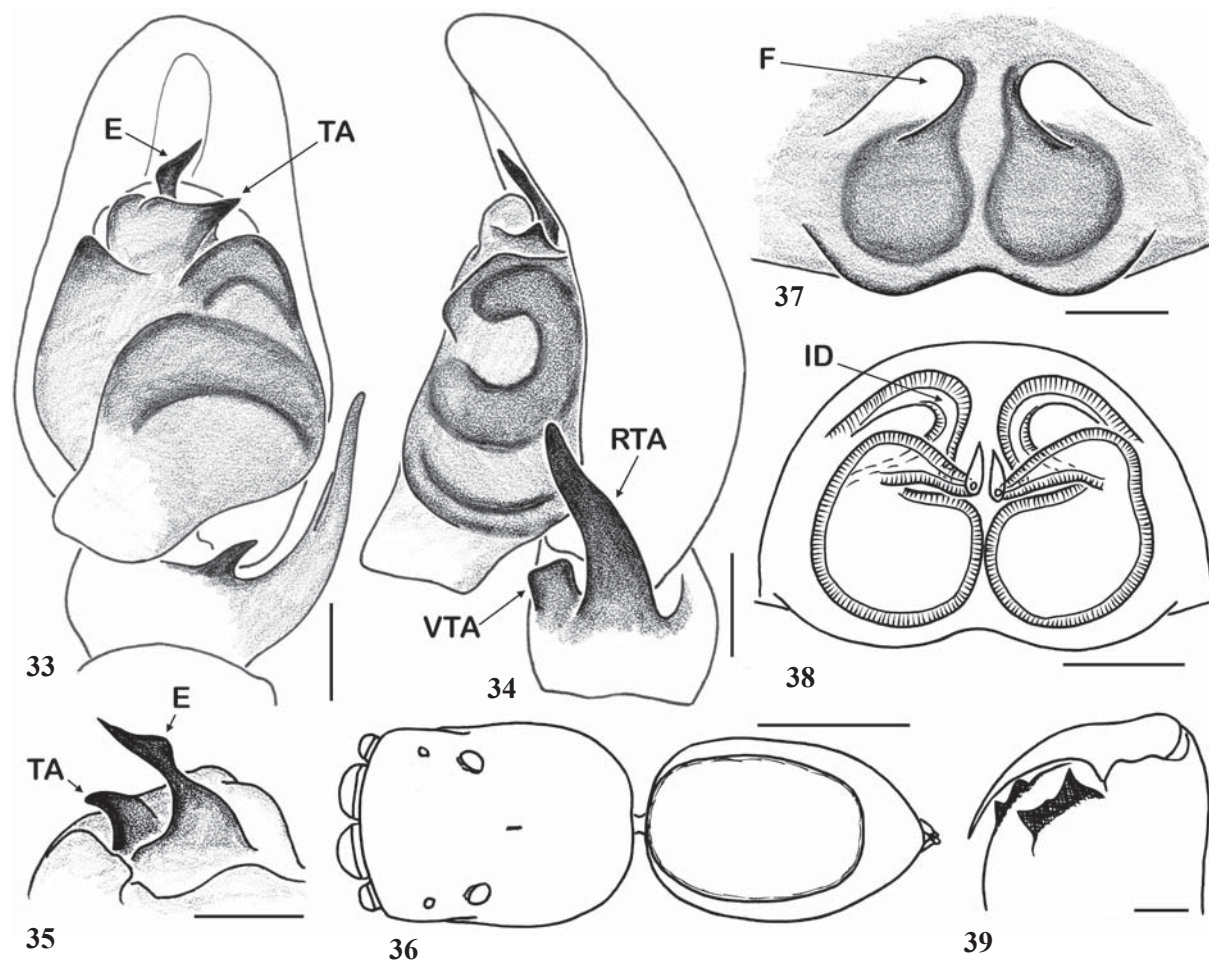
COMMENTS. The discovery of the male of *Lechia squamata* allows us to resolve the taxonomic status of the monotypic genus *Lechia* Żabka, 1985. Both sexes (see Figs 33–39) possesses the main diagnostic characters of the genus *Laufeia* Simon, 1889 [see Simon, 1889; Ikeda, 1998; Zhang, Maddison, 2015]: viz., fissidinate retromarginal tooth (Fig. 39); leg formula I, IV, II, III in the male (as stated in Simon [1889], contra Ikeda [1998]) and IV, III, I, II in the female (differs from that in the female of *H. aenea*: IV, I, III, II [see Ikeda, 1998]); the large dorsal scutum in the male (Fig. 36); the tegulum with the well-developed proximal lobe; the embolic

division of the male palp with two sclerites: the embolus and the terminal apophysis (exactly as the conformation of the embolic division in the type species, see Bohdanowicz, Prószyński [1987] and Ikeda [1998]); and the fossae (= epigynal windows) of the epigyne shallow and poorly marked. The unique feature of *L. squamata* is the well-developed ventral tibial apophysis in the male palp (Fig. 34) that is absent in the majority of *Laufeia* species; yet the marked basal bulges at the base of RTA (almost like ventral apophyses) present in *L. aenea* and *L. sasakii* Ikeda, 1998 from Japan [Ikeda, 1998: figs 5, 11; Zhang, Maddison, 2015: fig. 507].

The present assignment of *Lechia squamata*, the type species of *Lechia*, to the genus *Laufeia* leave no doubts that both generic names are to be synonymized.

**DISTRIBUTION.** To date, the species has been known from China (Hainan) and Vietnam (Hanoi and Viet Tri in Vinh Phu Prov., and Nuoc Sot Vil. in Ha Tinh Prov. [9]) only [Žabka, 1985; Song et al., 1999; Pham et al., 2004; present data].

**DESCRIPTION. MALE. Measurements.** Carapace 2.03 long, 1.43 wide and 0.93 high at PLE. Ocular area 1.03 long, 1.25 wide anteriorly and 1.00 wide posteriorly. Diameter of AME 0.38. Clypeus height 0.08, chelicera length 0.63. Abdomen 1.88 long, 1.25 wide. Length of leg segments: I: 1.10 + 0.75 + 0.80 + 0.53 + 0.38; II: 0.90 + 0.50 + 0.55 + 0.45 + 0.33; III: 0.88 + 0.43 + 0.53 + 0.50 + 0.33; IV: 0.93 + 0.48 + 0.68 + 0.58 + 0.33. **Leg spination.** Leg I: Fm d 0-1-1-2; Tb pr 0-1-0, v 2-1-2ap; Mt v 2-2ap. Leg II: Fm d 0-1-3; Tb v 2-2-2ap; Mt v 2-2ap. Leg III: Fm d 0-1-1-2; Tb rt 1-0, v 1ap; Mt pr and rt 2ap. Leg IV: Fm d 0-1-1-2; Tb rt 1-0, v 1ap; Mt no spines. **Coloration** in alcohol. Carapace brown, with dark brown eye field and black around eyes; carapace covered with sparse long white hairs. Clypeus brown, with a marginal fringe of white hairs. Sternum brown-yellow. Maxillae, labium and chelicerae brown. Abdomen grey, without a colour pattern; dorsum with a large shiny brown scutum covering  $\frac{3}{4}$  of its length. Book-lung covers and spinnerets yellow. Legs I and II: all segments dark brown, but metatarsi and tarsi yellow;



Figs 33–39. Copulatory organs and habitus of *Laufeia squamata* (Žabka, 1985), Salticidae, from Vietnam (Nuoc Sot Vil. in Ha Tinh Prov.; see Map: 9): 33 — male palp, ventral view; 34 — ditto, retrolateral view; 35 — embolic division, dorsal view; 36 — male habitus; 37 — epigyne, ventral view; 38 — spermathecae, dorsal view; 39 — left female chelicera, ventral view. Scale bars: (33–35, 37–39) 0.1 mm, (36) 1 mm. Abbreviations: E — embolus; F — fossa; ID — insemination duct; RTA — retrolateral tibial apophysis; TA — terminal apophysis; VTA — ventral tibial apophysis.

Рис. 33–39. Копулятивные органы и габитус *Laufeia squamata* (Žabka, 1985), Salticidae, из Вьетнама (дер. Нуотсок, пров. Хатинь; см. Карту: 9): 33 — пальпа самца, вид снизу; 34 — тоже, сзади-латерально; 35 — эмболярный отдел, вид сверху; 36 — габитус самца; 37 — эпигина, вид снизу; 38 — сперматека, вид сверху; 39 — левая хелицера самки, вид снизу. Масштаб: (33–35, 37–39) 0,1 мм, (36) 1 мм. Сокращения: E — эмболюс; F — фосса; ID — копулятивный канал; RTA — задне-латеральный голенный отросток; TA — терминальный апофиз; VTA — вентральный голенный отросток.

legs I stronger and longer than other legs. Legs III and IV yellow, with brown (semi)rings. Palpal structure as in Figs 33–35: both retrolateral and ventral tibial apophyses present; proximal tegular lobe present; the embolic division consists of both the sharpened, finger-shaped embolus and tooth-shaped terminal apophysis directed retro-laterad.

**FEMALE.** *Measurements.* Carapace 2.25 long, 1.63 wide and 0.80 high at PLE. Ocular area 1.25 long, 1.45 wide anteriorly and 1.38 wide posteriorly. Diameter of AME 0.50. Clypeus height 0.08, chelicera length 0.60. Abdomen 2.30 long, 1.48 wide. Length of leg segments: I: 1.13 + 0.63 + 0.75 + 0.75 + 0.40; II: 1.08 + 0.53 + 0.53 + 0.68 + 0.40; III: 1.25 + 0.58 + 0.70 + 1.02 + 0.43; IV: 1.43 + 0.45 + 1.00 + 1.18 + 0.45. *Leg spination.* Leg I: Fm d 0-1-1-2; Tb pr 1ap, v 2-0-2ap; Mt v 2-2ap. Leg II: Fm d 0-1-1-3; Tb pr 0-1, rt 1-1, v 1-1ap; Mt v 2-2ap. Leg III: Fm d 0-1-1-3; Pt rt 0-1-0; Tb pr and rt 1-1, v 1-0; Mt pr and rt 1-0-2ap, v 2-0-2ap. Leg IV: Fm d 0-1-1-3; Pt rt 0-1-0; Tb pr and rt 1-1, v 1-0-2ap; Mt pr 1-0-2ap, rt 1-1-0-2ap, v 1-2ap. *Coloration* in alcohol. Carapace light brown, with yellowish eye field, a yellow median band and a dark brown marginal line; black around eyes. Carapace densely covered with white adpressed scales. Clypeus yellowish, densely covered with white hairs. Sternum yellow, covered with white hairs. Maxillae, labium and chelicerae yellow. Abdomen yellow, with dense brown speckles. Book-lung covers yellow; spinnerets light brown. All legs yellow, with brown (semi)rings. Palps entirely yellow, covered with white hairs. Epigyne and spermathecae as in Figs 37–38: with two shallow, symmetrical fossae (= epigynal windows); short, C-shaped insemination ducts; large, retort-shaped receptacles.

#### *Menemerus bivittatus* (Dufour, 1831)

**MATERIAL.** VIETNAM: 1 ♀ (BMNH), Dong Nai Prov., Cat Tien Nat. Park (11°24.550'N, 107°24.247'E) [19], on wall outside building, 19.02.2012, J. Beccaloni; 1 ♂ (MMUE, G7565.19), Dong Nai Prov., Cat Tien N.P. (11°25'19"N, 107°25'41"E) [19], December 2002, A.V. Abramov; 1 ♂ (ZMMU), Ba Ria – Vung Tau Prov., c. 1.5 km S of Bing Rieng Vil., Binh Chau – Phuoc Buu Nat. Res. (10°32'N, 107°29'E) [21], 50 m a.s.l., December 2010, A.V. Abramov.

**COMMENTS.** Pantropical species [WSC, 2015]; hitherto recorded from a number of localities in Vietnam by Žabka [1985], Peng, Li [2003] and Pham et al. [2004]: Hanoi, Cuc Phuong in Ninh Binh Prov., Quang Hoa in Cao Bang Prov., and Viet Lann Vil. in Ha Giang Prov.

#### *Menemerus brachygnatus* (Thorell, 1887)

**MATERIAL.** VIETNAM: 1 ♂ (ZMMU), Ba Ria – Vung Tau Prov., Central part of Con Son Island (8°42'N, 106°35'E) [22], 5–300 m a.s.l., June 2010, A.V. Abramov.

**COMMENTS.** Oriental species, distributed from Nepal and India in the west, to Vietnam and Japan in the east [WSC, 2015; Metzner, 2015]; hitherto recorded from Vietnam (Chine – 80 km SW of Hanoi, and Cuc Phuong in Ninh Binh Prov.) by Žabka [1985] and Pham et al. [2004].

Prószyński [1987] treated this species name as a junior synonym of *Menemerus fulvus* (L. Koch, 1878), yet the name was revalidated by Jastrzębski [1997].

#### *Myrmarachne globosa* Wanless, 1978

**MATERIAL.** VIETNAM: 1 ♀ (BMNH), Dong Nai Prov., Cat Tien Nat. Park (11°24.550'N, 107°24.247'E) [19], in grass, 14.02.2012, J. Beccaloni.

**COMMENTS.** The species is known from Africa (Angola and Congo), southern China and Vietnam [Song et al., 1999; WSC, 2015; Metzner, 2015]; hitherto recorded from Vietnam (Chine – 80 km SW of Hanoi) by Žabka [1985] and Pham et al. [2004].

#### *Onomastus simoni* Žabka, 1985

**MATERIAL.** VIETNAM: 1 ♀ (ZMMU), Ba Ria – Vung Tau Prov., Binh Chau – Phuoc Buu Nat. Res. (10°32'N, 107°29'E) [21], 50 m a.s.l., June 2007, A.V. Abramov.

**COMMENTS.** To date, this species has been known from the female holotype and from the type locality only: Vietnam, Cuc Phuong in Ninh Binh Prov. [Žabka, 1985], also listed by Pham et al. [2004]; it is the second record of the species after its original description (Map: 21).

#### *Pancorius crinitus* Logunov et Jäger, sp.n.

Figs 40–44.

**MATERIAL.** Holotype ♂ (BMNH) from Vietnam, Dong Nai Prov., Cat Tien Nat. Park (11°23.5771'N, 107°22.269'E) [19], low vegetation, 16.02.2012, J. Beccaloni. Paratypes: 2 ♀ (BMNH), together with the holotype; 1 ♂, 1 ♀ (MMUE; G7569.1), same locality [19], night sweep netting at light trap area, 18.02.2012, J. Beccaloni; 3 ♂♂ (BMNH), same locality [19], in plantation forest just outside the gate on the road to the minority Ta Lai Vil., 16.02.2012, J. Beccaloni; 1 ♂ (BMNH), same locality [19], swept from around vegetation in grounds of accommodation, 13.02.2012, J. Beccaloni.

**ETYMOLOGY.** From the Latin word 'crinitus' meaning 'hairy' and referring to the fact that male palps of the new species are densely covered with long white hairs.

**DIAGNOSIS.** This species differs from all the described *Pancorius* species in the following characters (for the comparative illustrations see Metzner [2015]): the male has the shortest and widest, thorn-shaped RTA directed dorsad (Fig. 41; not anterior as in all other species); the female has the narrowest epigynal pocket situated near the epigastric furrow, looking like a transverse chitinous rim (Fig. 44; all other species for which the females are described have one/two clearly marked epigynal pockets); the conformation of spermathecae of the new species is also diagnostic (Fig. 43).

**DISTRIBUTION.** The type locality (Cat Tien National Park) only (Map: 19).

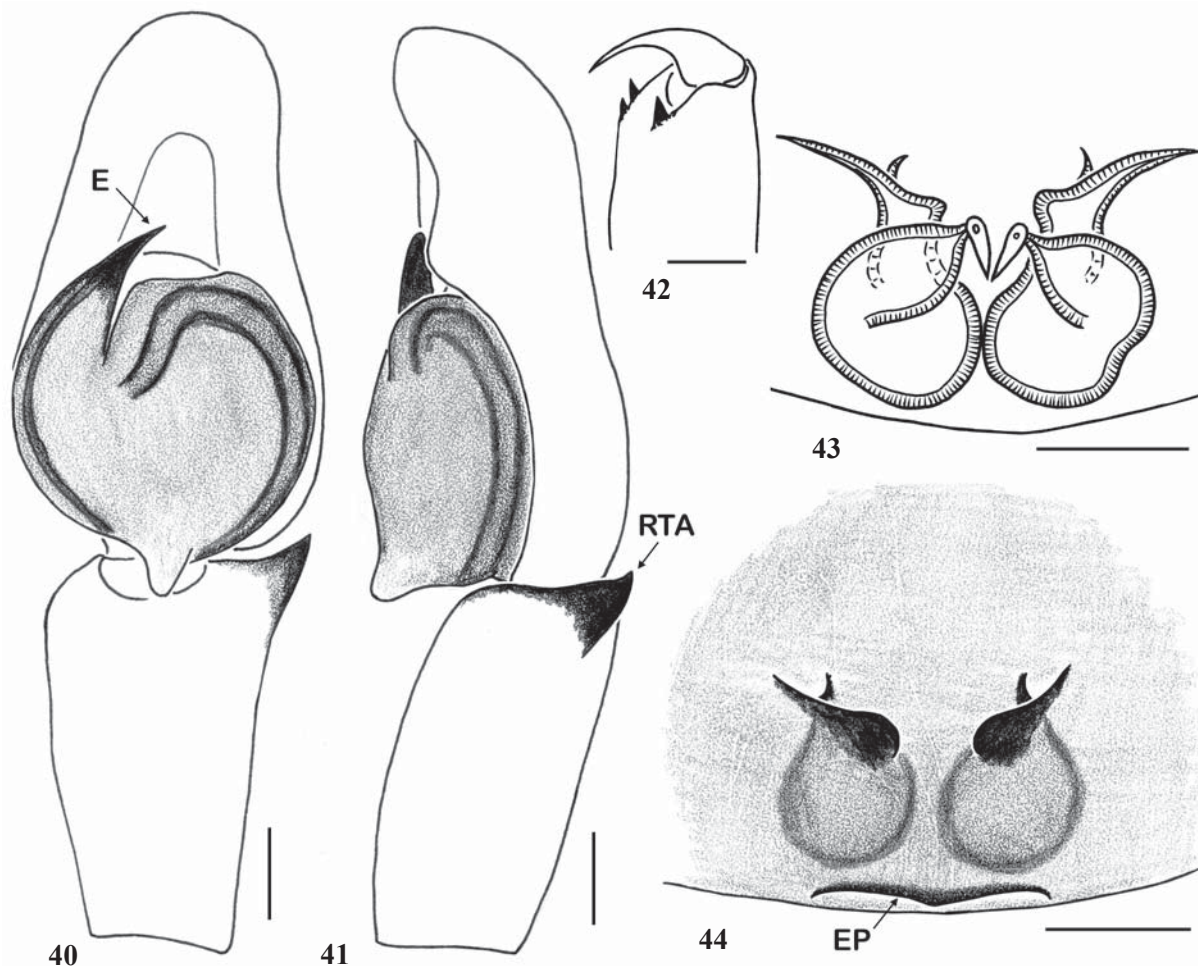
**DESCRIPTION.** MALE (the holotype). *Measurements.* Carapace 2.55 long, 2.20 wide and 1.45 high at PLE. Ocular area 1.65 long, 2.03 wide anteriorly and 1.95 wide posteriorly. Diameter of AME 0.63. Clypeus height 0.18, chelicera length 0.88. Abdomen 2.35 long, 1.70 wide. Length of leg segments: I: 1.75 + 0.85 + 1.30 + 0.95 + 0.60; II: 1.70 + 0.75 + 1.10 + 0.90 + 0.55; III: 2.10 + 0.90 + 1.20 + 1.25 + 0.60; IV: 1.65 + 0.70 + 1.10 + 1.30 + 0.60. *Leg spination.* Leg I: Fm d 0-1-1-5; Pt pr and rt 0-1-0; Tb pr 1-1-1-1ap, rt 1-1-1, v 2-2-2ap; Mt pr and rt 1-1-1ap, v 2-2ap. Leg II: Fm d 0-1-2-5; Pt pr and rt 0-1-0; Tb pr 1-1-1-1ap, rt 1-1-1, v 2-2-2ap; Mt pr and rt 1-1-1-1, v 1-0-2ap; Mt pr 1-0-2p, v 2-0-2ap. Leg III: Fm d 0-1-3-5; Pt pr and rt 0-1-0; Tb d 1-0, pr and rt 1-1-1-1, v 1-0-2ap; Mt pr 1-0-2p, v 2-0-2ap. Leg IV: Fm d 0-1-2-5; Pt pr and rt 0-1-0; Tb d 1-0, pr and rt 1-1-1-1, v 1-0-2ap; Mt d 0-1-0, pr and rt 1-0-2ap, v 1-0-2ap. *Coloration* in alcohol. Carapace yellow, with black around eyes; eye field and thorax behind the fovea sparsely covered with long brown scales; there is a wide marginal band of the carapace consisted of the long brown scales; both sides of the carapace with large white spots of long white scales; clypeus yellow, tinged with brown and with few thick, club-shaped, protruding white hairs. Sternum bright yellow. Maxillae and labium yellow, tinged with brown. Chelicerae brownish yellow, anteriorly with sparse, thick and club-shaped, protruding white hairs. Abdomen entirely yellow, with V-shaped figure made of wide greyish orange bands. Book-lung covers yellow; spinnerets grey. All legs yellow, with brown patches and (semi)rings of long, adpressed brown hairs. Legs I and I darker than other legs, with their femora anteriorly and patellae and tibiae anteriorly and

ventrally densely covered with brown hairs. Palps yellow, densely covered with long white hairs, palpal structure as in Figs 40–41: short, cone-shaped tibial apophysis; tegulum round and flat, with a short proximal-ventral outgrowth; embolus relatively short, thorn-shaped.

**FEMALE** (the paratype collected together with the holotype). *Measurements*. Carapace 2.60 long, 2.05 wide and 1.40 high at PLE. Ocular area 1.60 long, 1.95 wide anteriorly and 1.90 wide posteriorly. Diameter of AME 0.60. Clypeus height 0.10, chelicera length 0.80. Abdomen 3.00 long, 2.05 wide. Length of leg segments: I: 1.55 + 0.90 + 1.15 + 0.75 + 0.55; II: 1.45 + 0.80 + 1.10 + 0.75 + 0.55; III: 2.00 + 0.85 + 1.10 + 1.00 + 0.70; IV: 1.80 + 0.75 + 1.05 + 1.25 + 0.60. *Leg spination*. Leg I: Fm d 0-1-1-4; Pt pr 0-1-0; Tb pr 1-1, v 2-2-2ap; Mt v 2-2ap. Leg II: Fm d 0-1-2-5; Pt pr 0-1-0; Tb pr 1-1-1, v 2-2-2ap; Mt pr 1-1, v 2-2ap. Leg III: Fm d 0-1-2-4; Pt pr and rt 0-1-0; Tb pr and rt 1-1-1, v 1-0-2ap; Mt pr and rt 1-0-2p, v 2-0-2ap. Leg IV: Fm d 1-1-3; Pt pr and rt 0-1-0; Tb pr and rt 1-1-1, v 1-0-2ap; Mt pr and rt 1-1-2ap, v 1-0-2ap. *Coloration* in alcohol as in the male holotype, but lighter and differs from it as follows: carapace without large white spots

of hairs on its sides; clypeus yellow and densely covered with white hairs; V-shaped pattern on dorsum grey (the second female that was at our disposal has grey-orange pattern); all legs and palps entirely yellow. Chelicera with a unidentate retromarginal tooth (Fig. 42). Epigyne and spermathecae as in Figs 43–44: epigynal plate flat, with two slit-shaped copulatory openings; very shallow and wide epigynal pocket is situated near the epigastric furrow; insemination ducts wide and short; receptacles ball-shaped, only slightly wider than the insemination ducts.

*Colour variation*. Males of this species display a strong colour variation and seem to exist in two colour morphs: the lighter (yellow) variant as that described above for the holotype, and the darker (brown) variant as that of the male paratypes available in the type series. The darker morph has brown carapace, with yellow-brown eye field; all legs, including their coxae brown to dark brown (except for the coxae IV which are yellow); palpal femora brown to dark brown, with remaining segment yellow; abdomen entirely dark grey, with a short longitudinal yellowish stripe in the area of cardiac mark; book-lungs and spinnerets dark grey.



Figs 40–44. Copulatory organs of *Pancorius crinitus* sp.n. (♂ holotype, ♀ paratype), Salticidae: 40 — male palp, ventral view; 41 — ditto, retrolateral view; 42 — left female chelicera, ventral view; 43 — spermathecae, dorsal view; 44 — epigyne, ventral view. Scale bars: (40–41, 43–44) 0.1 mm, (42) 0.25 mm. Abbreviations: E — embolus; EP — epigynal pocket; RTA — retrolateral tibial apophysis.

Рис. 40–44. Копулятивные органы *Pancorius crinitus* sp.n. (♂ голотип, ♀ паратип), Salticidae: 40 — пальпа самца, вид снизу; 41 — то же, сзади-латерально; 42 — левая хелицеар самки, вид снизу; 43 — сперматека, вид сверху; 44 — эпигина, вид снизу. Масштаб: (40–41, 43–44) 0,1 мм, (42) 0,25 мм. Сокращения: E — эмболус; EP — эпигинальный карман; RTA — задне-латеральный голенный отросток.



*Pancorius magnus* Żabka, 1985

MATERIAL. VIETNAM: 2 ♂♂, 1 ♀ (MMUE, G7565.22), Ba Vi Distr., c. 50 km W of Hanoi, Ba Vi Nat. Park, nr. Ba Vi Resort (21°04'57.9''N, 105°22'54.1''E) [6], 35–400 m a.s.l., May 2013, A.V. Abramov; 2 ♂♂ (ZMMU), Ha Tinh Prov., Huong Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 11–26.04.2000, A.V. Abramov.

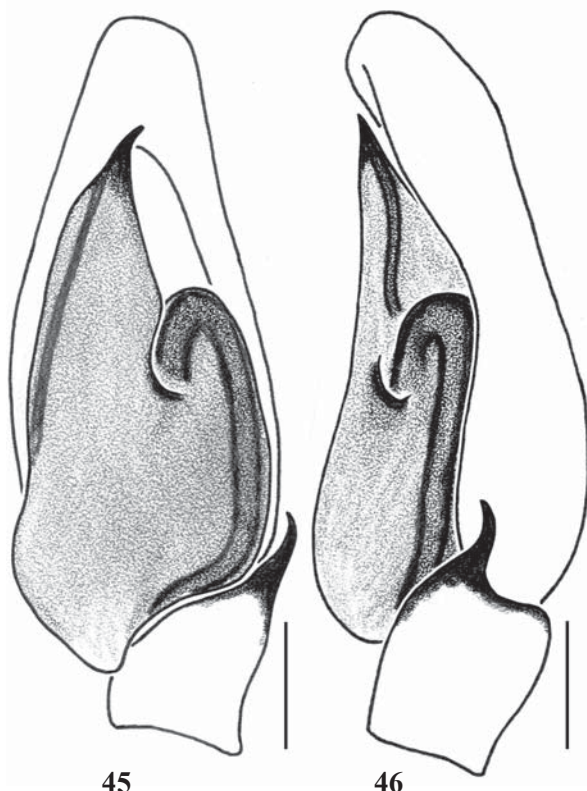
COMMENTS. Poorly documented Oriental species, to date recorded from India (Darjeeling), Nepal, Singapore, Taiwan and Vietnam [WSC, 2015; Metzner, 2015]; hitherto recorded from Vietnam (Cuc Phuong in Ninh Binh Prov., and Vinh Phu) by Żabka [1985], also listed by Pham et al. [2004].

*Phintella bifurcilinea* (Bösenberg et Strand, 1906)

Figs 45–46.

MATERIAL. VIETNAM: 1 ♂ (BMNH), Dong Nai Prov., Cat Tien Nat. Park (11°24.550'N, 107°24.247'E) [19], swept from foliage, 13.02.2012, J. Beccaloni.

COMMENTS. Oriental species, to date known from southern China, Korea, Japan and Vietnam [Song et al., 1999; WSC, 2015; Metzner, 2015]; hitherto recorded from a number of localities in Vietnam by Żabka [1985] and Peng, Li [2003], also listed by Pham et al. [2004]: Luc Yen in Yen Bai Prov., Sac Ha Vil. in Cao Bang Prov., Viet Lann Vil. in Ha Giang Prov., and Bac Thai.



Figs 45–46. Male copulatory organ of *Phintella bifurcilinea* (Bösenberg et Strand, 1906), Salticidae, from Vietnam (Cat Tien Nat. Park in Dong Nai Prov.; see Map: 19): 45 — male palp, ventral view; 46 — ditto, retrolateral view. Scale bars: 0.1 mm.

Рис. 45–46. Копулятивный орган самца *Phintella bifurcilinea* (Bösenberg et Strand, 1906), Salticidae, из Вьетнама (нац. парк Катъен в пров. Донгнай; см. Карту: 19): 45 — пальпа самца, вид снизу; 46 — то же, сзади-латерально. Масштаб: 0,1 мм.

*Plexippus paykulli* (Audouin, 1826)

MATERIAL. VIETNAM: 1 ♀ (MMUE, G7565.13), Phu Tho Prov., Thanh Son Distr., Xuan Son Nat. Park (21°08'11''N, 104°56'11''E) [5], 300–400 m a.s.l., July 2014, A.V. Abramov; 2 ♂♂ (MMUE, G7565.14), Lang Son Prov., Huu Lung Distr., nr. Huu Len Vil., Huu Lien Nat. Res. (21°39'38''N, 106°21'45''E) [8], 230 m a.s.l., 8–13.11.2012, A.V. Abramov; 1 ♂ (MMUE, G7565.15), Ha Tinh Prov., Hong Linh, Dau Lieu (18°29'57.5''N, 105°44'03.3''E) [10], 26 m a.s.l., 5.05.2015, A.V. Abramov.

COMMENTS. Cosmopolitan species [WSC, 2015]; hitherto recorded from a number of localities in Vietnam by Simon [1903], Hogg [1922: sub. *Menemerus crassus*], Żabka [1985] and Pham et al. [2004]: Hanoi (incl. Thong Nhat), Phuc-Son in Annam, and Dran in Lam Dong Prov.

*Plexippus petersi* (Karsch, 1878)

MATERIAL. VIETNAM: 1 ♂ (ZMMU), Ha Tinh Prov., Cam Xuyen Distr., Ke Go Nat. Res., nr. Mui Tru Station (18°06'30''N, 106°01'01''E) [11], 40 m a.s.l., 7–14.04.2015 A.V. Abramov; 1 ♂ (MMUE, G7565.17), Kon Tum Prov., eastern part of Chu Mom Ray Nat. Park, nr. Bar Goc Station (14°26'01''N, 107°43'14''E) [13], 710 m a.s.l., May 2014, A.V. Abramov; 1 ♂, 1 ♀ (ZMMU), Dong Nai Prov., Cat Tien N.P. (11°25'19''N, 107°25'41''E) [19], December 2002, A.V. Abramov; 1 ♂, 1 ♀ (MMUE, G7565.16), Ba Ria – Vung Tau Prov., Central part of Con Son Island (8°42'N, 106°35'E) [22], 5–300 m a.s.l., June 2010, A.V. Abramov.

COMMENTS. Widespread species in the (sub)tropical regions of the Old World [WSC, 2015; Metzner, 2015]; hitherto recorded from Vietnam (Bac Thai, and Hanoi – incl. Bach Thao and Thong Nhat) by Żabka [1985] and Pham et al. [2004].

*Portia fimbriata* (Doleschall, 1859)

MATERIAL. VIETNAM: 1 ♀ (ZMMU), Ba Ria – Vung Tau Prov., Binh Chau – Phuoc Buu Nat. Res. (10°32'N, 107°29'E) [21], 50 m a.s.l., June 2007, A.V. Abramov.

COMMENTS. Widespread species in the (sub)tropical regions of the Old World [WSC, 2015; Metzner, 2015]; first record for Vietnam (Map: 21).

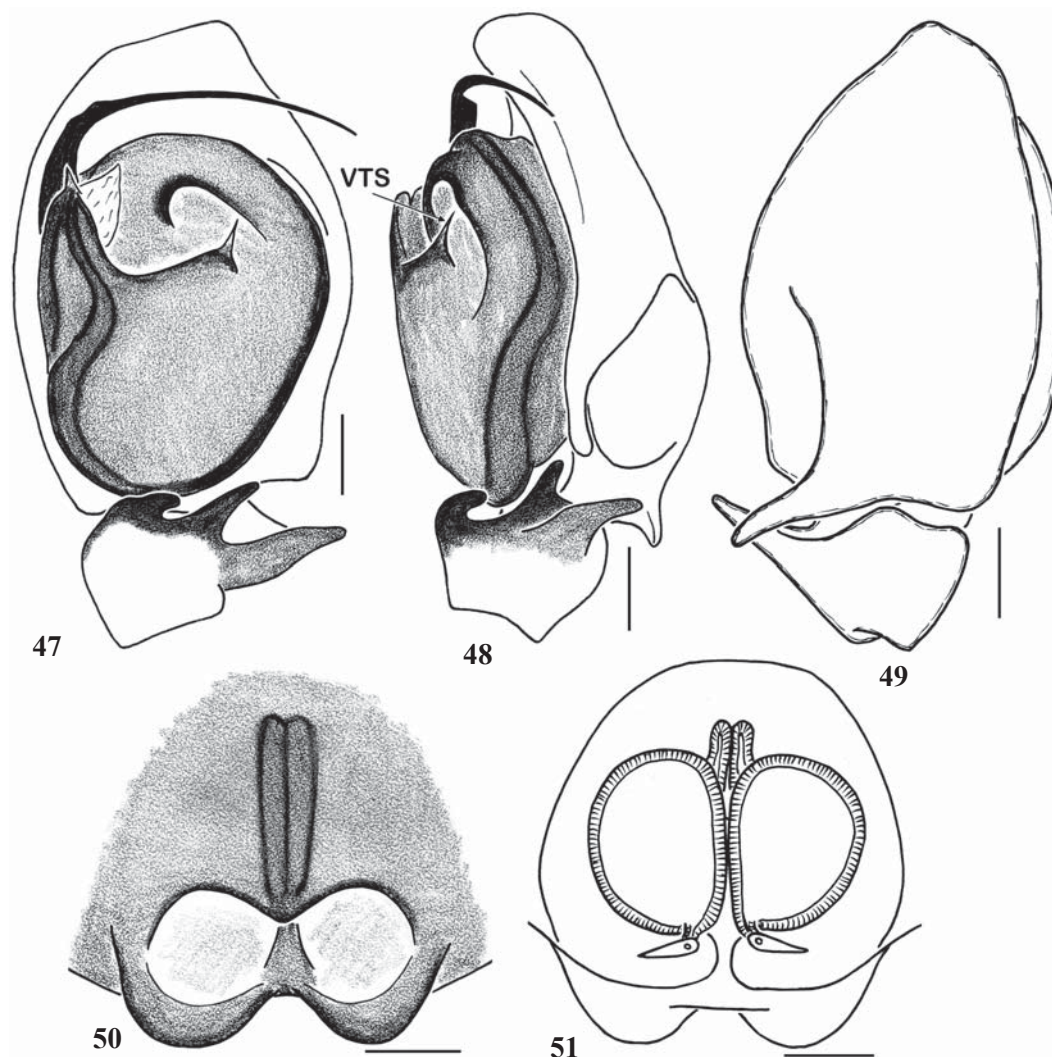
*Portia labiata* (Thorell, 1887)

Figs 47–51.

MATERIAL. VIETNAM: 1 ♂, 1 ♀ (BMNH), Dong Nai Prov., Cat Tien Nat. Park (11°24.550'N, 107°24.247'E) [19], 13–16.02.2012, J. Beccaloni.

COMMENTS. Oriental species, known from India and Sri Lanka in the west, throughout southern China to the Philippine and New Guinea in the east [WSC, 2015; Metzner, 2015]; first record for Vietnam (Map: 19).

The studied specimens indeed belong to *P. labiata* (cf. Figs 47–51 and figs 10, A–C, 11, A–C in Wanless [1978]). It is worth mentioning that the species *Portia quei* Żabka, 1985 described and recorded from Vietnam (Phu Que, Hanoi, and Tab Linch Vil. in Son Tay Prov.) [Żabka, 1985; Peng, Li, 2003] and then also recorded from a number of localities in southern China [Song et al., 1999] seems to be a junior synonym of *P. labiata*. Although the original illustrations by Żabka [1985: figs 497–498] show no ventral tegular spine, which is characteristic of the males of *P. labiata* (Figs 47–48), the subsequent illustrations of *P. quei* by Chinese authors [e.g., Song et al., 1999: fig. 311, L] show such a spine in the Chinese specimens. The female copulatory organs of the supposed female of *P. quei* are also identical with those of *P. labiata* (cf. Figs 50–51 and figs 312, F–G in Song et al. [1999]). A formal synonymy of both names is postponed until the holotype of *P. quei* has been re-examined.



Figs 47–51. Copulatory organs of *Portia labiata* (Thorell, 1887), Salticidae, from Vietnam (Cat Tien Nat. Park in Dong Nai Prov.; see Map: 19): 47 — male palp, ventral view; 48 — ditto, retrolateral view; 49 — ditto, dorsal view; 50 — epigyne, ventral view; 51 — spermathecae, dorsal view. Scale bars: 0.1 mm. Abbreviation: VTS — ventral tegular spine.

Рис. 47–51. Копулятивные органы *Portia labiata* (Thorell, 1887), Salticidae, из Вьетнама (нац. парк Катъен в пров. Донгнай; см. Карту: 19): 47 — палпа самца, вид снизу; 48 — тоже, сзади-латерально; 49 — тоже, сверху; 50 — эпигина, вид снизу; 51 — сперматека, вид сверху. Масштаб: 0,1 мм. Сокращение: VTS — вентральный тегулярный шип.

*Ptocasius weyersi* Simon, 1885

Figs 52–56.

**MATERIAL.** VIETNAM: 1 ♂, 1 ♀ (BMNH), Dong Nai Prov., Cat Tien Nat. Park (11°24.550'N, 107°24.247'E) [19], ♂ — on the ground, ♀ — sweep netting of foliage, 13–16.02.2012, J. Beccaloni.

**DIAGNOSIS.** Easily distinguished from all other *Ptocasius* species (for the comparative illustrations see Metzner [2015]) by the flat and round tegulum, with the embolus originating at 3 hours (Fig. 52) in the male and by presence and shape of the singular central epigynal pocket (Fig. 54); the conformation of the spermathecae is also diagnostic (Fig. 55).

**COMMENTS.** *P. weyersi* is the type species of the poorly diagnosed genus *Ptocasius* Simon, 1885 and to date has been known from the male only [Zabka, 1985: figs 530–534]. The newly described female of the type species allows us to clarify the generic definition, particularly by the fact that the female has the singular, central, blind-ending epigynal pocket

(Fig. 54), whereas almost all other described *Ptocasius* species, except for the Chinese *P. montiformis* Song, 1991 [see Song et al., 1999: figs 313, T–U], have two separated epigynal pockets, as in the species of the closely related genus *Yaginumaella* Prószyński, 1979 (see Metzner [2015] for the comparative illustrations). Thus, the old-standing problem of whether *Ptocasius* and *Yaginumaella* are congeneric or not is to be reconsidered in the light of finding of the female of *P. weyersi*. The matter requires a special attention in the future.

**DISTRIBUTION.** To date, the species has been known from the males from Indonesia (Sumatra) and Singapore [Metzner, 2015]; first record for Vietnam (Map: 19).

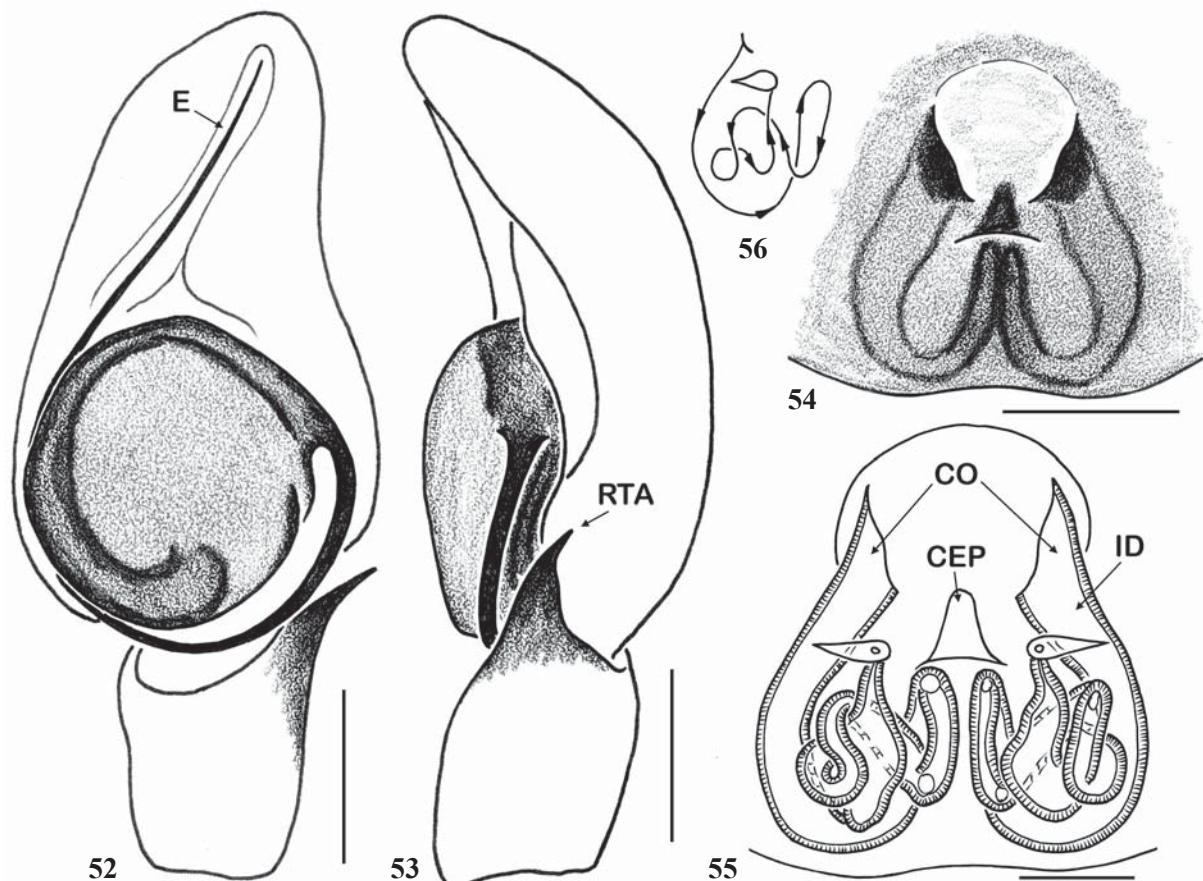
**DESCRIPTION. MALE. Measurements.** Carapace 3.70 long, 2.80 wide and 2.25 high at PLE. Ocular area 1.90 long, 2.03 wide anteriorly and 2.48 wide posteriorly. Diameter of AME 0.78. Clypeus height 0.15, chelicera length 1.63. Abdomen 4.00 long, 1.90 wide. Length of leg segments: I: 2.45 + 1.40 + 1.75 + 1.20 + 0.70; II: 2.00 + 1.20 + 1.40 + 1.05 + 0.60;

III: 2.25 + 1.15 + 1.25 + 1.45 + 0.70; IV: 2.20 + 0.95 + 1.45 + 1.50 + 0.75. *Leg spination*. Leg I: Fm d 0-1-1-4; Pt pr and rt 0-1-0; Tb pr and rt 1-1, v 2-2-2ap; Mt pr and rt 1ap, v 2-2ap. Leg II: Fm d 0-1-2-5; Pt pr and rt 0-1-0; Tb d 1-0-0-2, pr and rt 1-1-1, v 1-0-2ap; Mt pr and rt 1-0-2ap, v 2-0-2ap. Leg III: Fm d 0-1-2-5; Pt pr and rt 0-1-0; Tb d 1-0-0-2, pr and rt 1-1-1, v 1-0-2ap; Mt pr and rt 1-0-2p, v 2-0-2ap. Leg IV: Fm d 0-1-2-5; Pt pr and rt 0-1-0; Tb d 1-0-0-2, pr and rt 1-1-1, v 1-0-2ap; Mt pr and rt 1-1-2ap, v 1-0-2ap. *Coloration* in alcohol. Carapace brown, but slightly yellowish behind PLEs, sparsely covered with brown hairs; sides of carapace with large and wide patches of white scales. Sternum brownish. Labium and maxillae brown, with yellow apices. Chelicerae dark brown. Abdomen elongated pear-shaped, brownish on its sides, anteriorly covered with brownish hairs; dorsum with an elongated, interrupted yellow stripe; venter yellow, with a wide elongated brownish stripe. Book-lung covers yellow, spinnerets brownish. All legs: femora brown, remaining segments yellow. Palps brownish, palpal structure as in Figs 52–53; singular RTA with a sharpened tip that is slightly bent dorsad; tegulum round and flat; long, whip-shaped embolus originates at 3 hours.

*FEMALE. Measurements*. Carapace 2.50 long, 1.85 wide and 1.25 high at PLE. Ocular area 1.45 long, 1.78 wide anteriorly and 1.85 wide posteriorly. Diameter of AME 0.60. Clypeus height 0.08, chelicera length 0.98. Abdomen 3.20 long, 1.90 wide. Length of leg segments: I: 1.23 + 0.75 + 0.85 + 0.55 + 0.55; II: 1.10 + 0.75 + 0.70 + 0.55 + 0.43; III: 1.35 + 0.73 + 0.78 + 0.78 + 0.50; IV: 1.43 + 0.68 + 0.98 + 0.98 + 0.53. *Leg spination*. Leg I: Fm d 0-1-2-3; Pt pr 0-1-0; Tb pr 1-1, v 2-2-2ap; Mt v 2-2ap. Leg II: Fm d 0-1-2-5; Pt pr 0-1-0; Tb pr 1-1, v 2-2-2ap; Mt pr 1-1ap, v 2-2ap. Leg III: Fm d 0-1-1-4; Pt pr and rt 0-1-0; Tb pr 1-1, rt 1-1-1, v 1-2ap; Mt pr and rt 1-2p, v 2-2ap. Leg IV: Fm d 0-1-1-3; Pt pr and rt 0-1-0; Tb pr 0-1-1, rt 1-1-1, v 2ap; Mt pr and rt 1-1-2ap, v 1-0-2ap. *Coloration* in alcohol as in the male, but palps are entirely yellow. Epigyne and spermathecae as in Figs 54–56: two large, symmetrical copulatory openings facing each other; central blind-ending epigynal pocket present; insemination ducts relatively long and wide; receptacles pear-shaped.

*Rhene albiger* (C.L. Koch, 1848)

*MATERIAL*. VIETNAM: 1 ♂, 1 juv. (ZMMU), Dong Nai Prov., Cat Tien N.P. (11°25'19" N, 107°25'41" E) [19], December 2002, A.V. Abramov.



Figs 52–56. Copulatory organs of *Ptocasius weyersi* Simon, 1885, Salticidae, from Vietnam (Cat Tien Nat. Park in Dong Nai Prov.; see Map: 19): 52 — male palp, ventral view; 53 — ditto, retrolateral view; 54 — epigyne, ventral view; 55 — spermathecae, dorsal view; 56 — diagrammatic course of the insemination ducts. Scale bars: 0.1 mm. Abbreviations: CEP — central epigynal pocket; CO — copulatory opening; E — embolus; ID — insemination duct; RTA — retrolateral tibial apophysis.

Рис. 52–56. Копулятивные органы *Ptocasius weyersi* Simon, 1885, Salticidae, из Вьетнама (нац. парк Катъен в пров. Донгнай; см. Карту: 19): 52 — палпа самца, вид снизу; 53 — тоже, задне-латерально; 54 — эпигина, вид снизу; 55 — сперматека, вид сверху; 56 — схема протоков копулятивных каналов. Масштаб: 0,1 мм. Сокращения: CEP — центральный эпигинальный карман; CO — копулятивное отверстие; E — эмболус; ID — копулятивные каналы; RTA — задне-латеральные голенный отросток.

COMMENTS. Oriental species, known from Nepal and India in the west, throughout southern China to South Korea and Japan in the east, southward to Sumatra [WSC, 2015; Metzner, 2015]; hitherto recorded from a number of localities in Vietnam by Zabka [1985], Peng, Li [2003], and Pham et al. [2004]: Phu Que – 80 km NW of Vinh, Thang Ha in Hoa Binh Prov., Cuc Phuong in Ninh Binh Prov., and. Tan Linh Vil. in Son Tay Prov.

*Siler semiglaucus* (Simon, 1901)

MATERIAL. VIETNAM: 1 ♂, 1 ♀ (ZMMU), Dong Nai Prov., Cat Tien N.P. (11°25'19"N, 107°25'41"E) [19], December 2002, A.V. Abramov.

COMMENTS. Under-recorded Oriental species, known from Sri Lanka and Nepal in the west to the Phillipines in the east, and to Sumatra in the south [WSC, 2015; Metzner, 2015]; hitherto recorded from Vietnam (Phuc-Son in Annam) by Simon [1903: sub. *Cyllobeus* s.].

*Stenaelurillus abramovi* Logunov, 2008

MATERIAL. VIETNAM: 1 ♂, 1 ♀ (MMUE, G7565.18), Ba Ria – Vung Tau Prov., Binh Chau – Phuoc Buu Nat. Res. (10°32'N, 107°29'E) [21], 50 m a.s.l., November 2010, A.V. Abramov.

COMMENTS. To date, this species has been described and known from the type locality only: Vietnam, Binh Chau – Phuoc Buu Nat. Res. [Logunov, 2008] (Map: 21).

*Telamonia festiva* Thorell, 1887

MATERIAL. VIETNAM: 2 ♂♂ (BMNH), Dong Nai Prov., Cat Tien Nat. Park (11°24.550'N, 107°24.247'E) [19], 18.02.2012, J. Beccaloni.

COMMENTS. Oriental species, known from southern China to Indonesia and Malaysia [WSC, 2015; Metzner, 2015]; hitherto recorded from a number of localities in Vietnam by Simon [1903: sub. *Viciria tenebrifera* and *V. t. nigrina*], Zabka [1985], Peng, Li [2003] and Pham et al. [2004]: Phuc-Son in Annam, Chine – 80 km SW of Hanoi, Cuc Phuong in Ninh Binh Prov., Thang Ha in Hoa Binh Prov., Gao Bao Vil. in Ha Giang Prov., and Chai river.

*Thiania subopressa* Strand, 1907

MATERIAL. VIETNAM: 4 ♂♂, 6 ♀♀ (ZMMU), Ha Tinh Prov., Huang Son Distr., Son Kim Commune, c. 10 km S of Nuoc Sot Vil. (18°22'N, 105°13'E) [9], 200 m a.s.l., 14–26.04.2000, A.V. Abramov; 1 ♂ (MMUE, G7565.21), border between Gia Lai and Dak Lak Provinces (13°22'52"N, 108°07'31"E) [14], c. 300 m a.s.l., dry dipterocarp forest, 10.04.2006, A.V. Abramov; 1 ♂ (BMNH), Dong Nai Prov., Cat Tien Nat. Park (11°24.550'N, 107°24.247'E) [19], sweep netting of grassland, daytime, 13.02.2012, J. Cranfield.

COMMENTS. Oriental species, known from southern China, Japan (Okinawa) and Vietnam [WSC, 2015; Metzner, 2015]; hitherto recorded from Vietnam (Lao Cai, Bac Thai, and Hanoi, incl. Mai Lam) by Zabka [1985] and Pham et al. [2004].

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