

# A revision of the Chinese sac spiders of the genus *Clubiona* described by E. Schenkel in 1936 (Aranei Clubionidae)

## Ревизия китайских пауков-мешкопрядов рода *Clubiona*, описанных Э. Шенкелем в 1936 г. (Aranei Clubionidae)

**K.G. Mikhailov**  
**К.Г. Михайлов**

Zoological Museum of the Moscow State University, Bolshaya Nikitskaya Str. 6, Moscow 103009 Russia.  
Зоологический музей МГУ, ул. Большая Никитская, 6, Москва 103009 Россия.

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КЛЮЧЕВЫЕ СЛОВА: пауки, *Clubiona*, систематика, ревизия, Китай.

**ABSTRACT:** Six species of the spider genus *Clubiona* described by Schenkel [1936], namely *C. hedini*, *C. hummeli*, *C. papillata*, *C. pseudogermanica*, *C. pyrifera*, and *C. violaceovittata*, are redescribed and figured from type material. A new synonym is established: *C. flexa* Zhang et Chen, 1993 = *C. flexa* Zhang, 1992 = *C. papillata* Schenkel, 1936. The male of *C. hedini* Schenkel, 1936 is shown to actually belong to *C. jucunda* (Karsch, 1879). The female of *C. hummeli* Schenkel, 1936 is confirmed to actually belong to *C. pseudogermanica* Schenkel, 1936.

**РЕЗЮМЕ:** На основе изучения типового материала даны иллюстрированные переописания шести видов пауков рода *Clubiona*, описанных Э. Шенкелем [Schenkel, 1936]: *C. hedini*, *C. hummeli*, *C. papillata*, *C. pseudogermanica*, *C. pyrifera*, and *C. violaceovittata*. Установлена новая синонимия: *C. flexa* Zhang et Chen, 1993 = *C. flexa* Zhang, 1992 = *C. papillata* Schenkel, 1936. Показано, что самец, описанный под названием *C. hedini* Schenkel, 1936, на самом деле относится к *C. jucunda* (Karsch, 1879). Подтверждено предположение о том, что самка *C. hummeli* Schenkel, 1936 относится к *C. pseudogermanica* Schenkel, 1936.

## Introduction

The aim of this paper is to redescribe six *Clubiona* species from China, since the figures in their original descriptions [Schenkel, 1936] are quite poor. This has since led to numerous misidentifications, some of them are corrected below.

This paper continues my research in the fauna of *Clubiona* of the East Palearctic [Mikhailov, 1994, 1995a].

Material studied is kept in the following institutions: NHMS — Royal Natural History Museum

Stockholm, NHMB — Natural History Museum Basel.

All redescriptions are arranged according to the traditional pattern. The following abbreviations are accepted: Cb — cymbium, F — femur, Mt — metatarsus, Pt — patella, T — tarsus, Ti — tibia, d. — dorsally, lat. — laterally, rl. — retrolaterally, v. — ventrally. All measurements are given in mm.

A typical pattern of leg armature in *Clubiona* is as follows: F I-II d.1.1.2, III-IV d.1.1.3, Pt III-IV rl.1, Ti I-II v.2.2, III d.2.2, v.1.1, IV d.2.2, v.1.1.1, Mt I-II v.2, III d.2.1.2, lat.1.2, v.2.2, IV d.2.1.2, lat.2.2, v.2.1.2. Only deviations are given in the redescriptions.

## Taxonomic part

### *Clubiona (Clubiona) hedini* Schenkel, 1936 Figs 1-2.

*C. hedini* Schenkel, 1936: 165-166, fig. 57c (♀, not ♂).

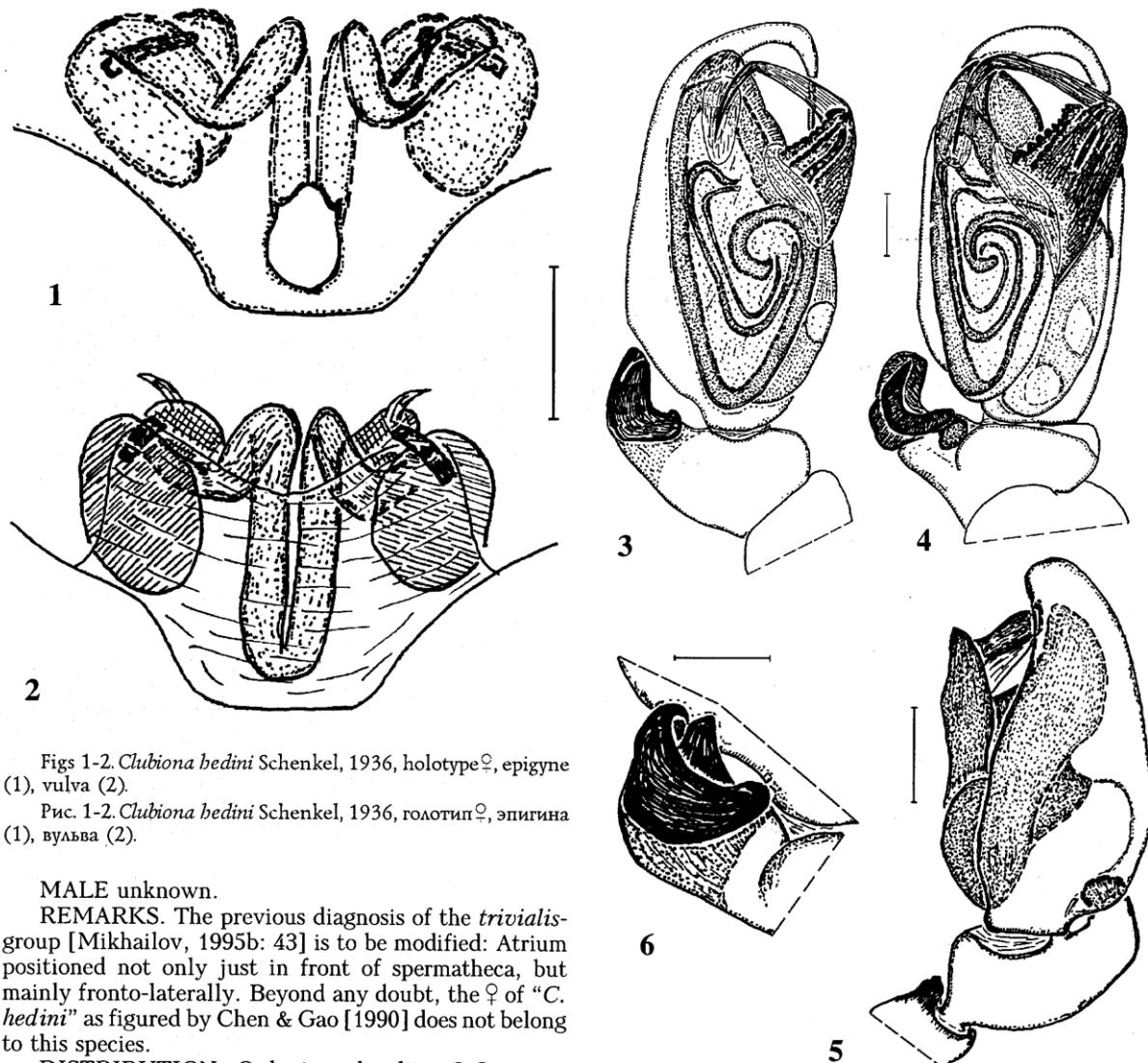
MATERIAL. 1 ♀ (lectotype, designated herewith, NHMS), with the labels reading: "K13: *Clubiona hedini* Schenk Type", "Sven Hedins Exp. Ctr. Asien Dr. Hummel" "Kina S.Kansu" (the ♂ from this vial actually belongs to *C. jucunda*, see below).

DIAGNOSIS. From the *trivialis*-group [Mikhailov, 1995b]. Distinguished by the wide copulatory tubes curved backward over 1/3 extent, the atria bordering the epigynal edge, and the 1/2 epigynal plate (ca 4/5 its width) projecting beyond the epigastric furrow.

DESCRIPTION. FEMALE. Total length 4.20. Carapace length 2.10, width 1.40, ratio 1.50. Carapace, chelicerae and legs straw-coloured. Leg armature: F II d.1.1.2 (1.1.3), Mt III d.2.1.2 (2.2). Leg measurements:

leg	I	II	III	IV
F	1.08	1.13	1.00	1.60
Pt	0.63	0.63	0.60	0.65
Ti	0.88	0.90	0.65	1.20
Mt	0.63	0.65	0.85	1.48
T	0.40	0.40	0.38	0.50

Abdomen cream-straw-coloured, its length 2.30, width 1.60, their ratio 1.44. Epigyne as in Figs 1-2.



Figs 1-2. *Clubiona bedini* Schenkel, 1936, holotype ♀, epigyne (1), vulva (2).

Рис. 1-2. *Clubiona bedini* Schenkel, 1936, голотип ♀, эпигина (1), вульва (2).

#### MALE unknown.

**REMARKS.** The previous diagnosis of the *trivialis*-group [Mikhailov, 1995b: 43] is to be modified: Atrium positioned not only just in front of spermatheca, but mainly fronto-laterally. Beyond any doubt, the ♀ of "*C. hedini*" as figured by Chen & Gao [1990] does not belong to this species.

**DISTRIBUTION.** Only type locality: S-Gansu in China, without exact locality. All other Chinese records referred to *C. hedini* actually belong to *C. jucunda*.

#### *Clubiona (Bicluona) jucunda* Karsch, 1878

*C. hedini* Schenkel, 1936: 163-165, fig. 57a,b (♂, not ♀).

*C. hedini* (+ *hedina* [sic!]): Hu, 1984: 290, fig. 304, 1-2 (♂).

*C. hedini* Schenkel: Song, 1987: 321-322, fig. 276 (♂).

*C. hedina* Schenkel: Chen, Gao, 1990: 152, fig. 191b (♂).

**MATERIAL.** 1 ♂ (NHMS), with the labels reading: "K13: *Clubiona bedini* Schkl Type", "Sven Hedins Exp. Ctr. Asien Dr.Hummel" "Kina S.Kansu".

**REMARKS.** A redescription of this species see in Mikhailov [1994].

**DISTRIBUTION.** Russia: Far East, Kunashir Isl.; Japan; N- & S-Korea. CHINA: S-Gansu [Schenkel, 1936], Gansu ([u, 1984; Song, 1987], Ningxia [Hu, 1984], Liaoning [Song, 1987], Shandong [Hu, 1984], Szechuan [Chen, Gao, 1990, males only], Hunan [Hu, 1984].

#### *Clubiona (Clubiona) hummeli* Schenkel, 1936 Figs 3-6.

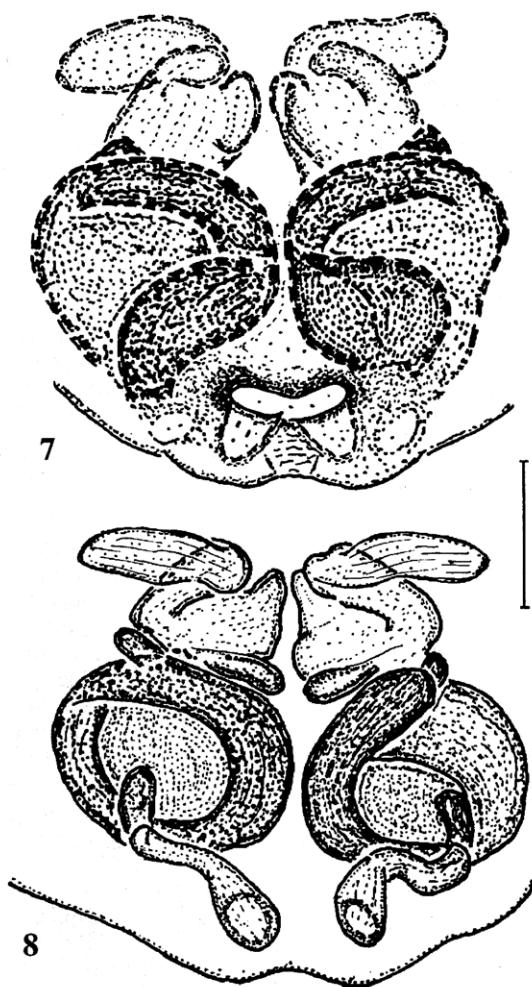
*C. hummeli* Schenkel, 1936: 159-161, fig. 55a-b for ♂ (not ♀).

Figs 3-6. *Clubiona hummeli* Schenkel, 1936, ♂ palp, ventrally (3), ventro-retrolaterally (4), prolaterally (5), tibial apophysis, retrolaterally (6).

Рис. 3-6. *Clubiona hummeli* Schenkel, 1936, пальпус ♂, вентрально (3), вентро-ретролатерально (4), пролатерально (5), вырост голени пальпы, ретролатерально (6).

**MATERIAL.** 1 ♂ (lectotype, designated herewith, with left palp only), 4 juv, all with the labels reading: "K5: *Clubiona hummeli* Schkl Typen", "Sven Hedins Exp. Ctr. Asien Dr.Hummel" (the ♀ from this vial actually belongs to *C. pseudogermanica*, see below), right ♂ palp (NHMB), with the label reading: "1926-a Paratypoide, *Clubiona hummeli* Schkl. Co-Typ ♀ + palpu. ♂. Tanchang. S.Kansu 28.IX.30" (the ♀ from this vial actually belongs to *C. pseudogermanica*, see below).

**DIAGNOSIS.** (♂). From the *pallidula*-group, the *hummeli*-subgroup [Mikhailov, 1995b]. Closest to *C. odesanensis* Paik, 1990, differing by the shape of the tibial apophysis: in *C. hummeli* two acute processes directed forward, in *C. odesanensis*, the tibial apophysis is curved perpendicularly to its axis, with two rounded tips directed ventrad (for *C. odesanensis*, see Mikhailov, 1991, figs. 17-21).



Figs 7-8. *Clubiona papillata* Schenkel, 1936, holotype ♀, epigyne (7), vulva (8).

Рис. 7-8. *Clubiona papillata* Schenkel, 1936, голотип ♀, эпигина (7), вульва (8).

**DESCRIPTION. MALE.** Total length 5.90. Carapace length 2.75, width 2.00, their ratio 1.38. Carapace reddish-brown, chelicerae dark reddish-brown. Legs straw-coloured. Leg armature: F II d.1.1.2 (1.1.3), Mt I v.2 (1). Leg measurements:

leg	I	II	III	IV
F	2.08	2.05	1.78	2.43
Pt	1.05	1.08	0.75	1.00
Ti	1.88	1.93	1.30	1.90
Mt	1.33	1.40	1.58	2.50
T	0.85	0.85	0.63	0.75

Palp as in Figs 3-6. F, Pt, Ti, and Cb 0.88, 0.43, 0.38, and 1.00 in length, respectively.

Abdomen pale greyish brown, its length 3.10, width 1.65, their ratio 1.88.

**FEMALE** unknown.

**REMARKS.** Conspecificity of the ♂ and ♀ referred to by E. Schenkel as *C. hummeli* is wrong, since the ♀ is almost not larger than the ♂ (total lengths 5.90 and 5.90-6.35, respectively). Schenkel's *C. hummeli* ♀ is actually *C. pseudogermanica* (= *C. salictum*), as suggested initial-

ly by Zhang [1991], then by Ono [1993] and Hayashi [1994]. The name *C. hummeli* should be kept only for the ♂ originally described by E. Schenkel.

**DISTRIBUTION.** CHINA: Gansu [Schenkel, 1936; Zhu, 1983; Hu, 1984], Ningxia [Hu, 1984], Shenxi [Zhu, 1983; Hu, 1984], Jilin [Zhu, 1983; Hu, 1984], Henan [Zhu, 1983; Hu, 1984], Shandong [Zhu, 1983; Hu, 1984], Anhui [Zhu, 1983; Hu, 1984; Chen, Zhao, 1993], Zhejiang [Chen, Zhang, 1991], Hunan [Zhu, 1983; Hu, 1984].

The illustration of *C. hummeli* from Szechuan [Chen, Gao, 1990, fig. 192 ♀] is quite obscure, so their record remains doubtful.

*Clubiona (Clubiona) papillata* Schenkel, 1936  
Figs. 7-8.

*C. papillata* Schenkel, 1936: 162-163, fig. 56a-b (♀).

*C. flexa* Zhang, 1992: 53-54, figs. 13-16 (♂, ♀), **syn.n.**

*C. flexa* Zhang, Chen, 1993: 306-308, figs. 1-4 (♂, ♀), **syn.n.**

**MATERIAL.** 1♀ (holotype, NHMS) with labels: "K5: *Clubiona papillata* Schenk Typus", "Sven Hedin's Exp. Ctr. Asien Dr. Hummel", "Kina S. Kansu".

**DIAGNOSIS.** From the *pallidula*-group, the *hummeli*-subgroup [Mikhailov, 1995b]. The ♂ is the closest to *C. odesanensis*, differing by the tibial apophysis narrowed and then widened at its halfway. Direction and curvature of the tibial apophysis are identical in both species. The ♀ is closer to *C. wolchongsensis* Paik, 1990, differing by the initial direction of the copulatory tube: in *C. papillata* it runs backwards, then anterolaterad, whereas in *C. wolchongsensis* it runs directly laterad.

**DESCRIPTION. FEMALE.** Total length 5.75. Carapace length 2.55, width 1.90, ratio 1.34. Carapace and chelicerae reddish-brown, legs straw-coloured. Leg armature: Ti III d.1.1.3 (1.2.3). Leg measurements:

leg	I	II	III	IV
F	1.48	1.58	1.45	1.88
Pt	0.95	0.98	0.78	0.93
Ti	1.28	1.33	1.00	1.63
Mt	0.88	0.88	1.20	2.00
T	0.60	0.63	0.45	0.60

Abdomen greyish-brown, its length 3.30, width 1.85, their ratio 1.78. Epigyne as in Figs 7-8.

**REMARKS.** The synonymy of *C. flexa* (described twice!) under *C. papillata* becomes obvious from a simple comparison of the figures in the original descriptions of *C. flexa* with the type specimen of *C. papillata*.

The illustrations of *C. papillata* from Shenxi [Hu, 1984, fig. 312: 1, 2 ♀] are doubtful in many details: the copulatory openings are indicated at the hind edge of the epigynal plate instead of its hind part, all internal genitalia are figured wrong. So the record of this species in Shenxi remains questionable.

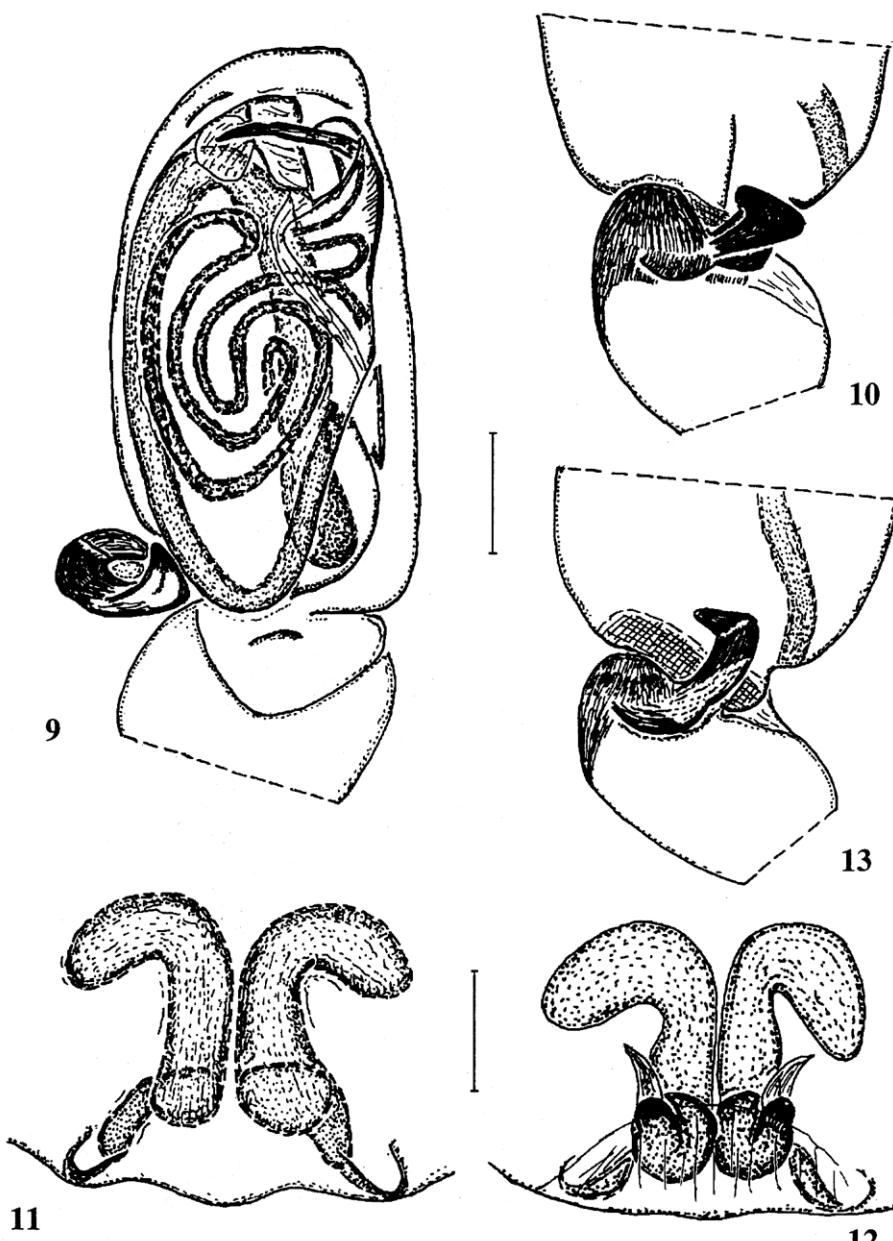
**DISTRIBUTION.** CHINA: Gansu [Schenkel, 1936; Zhu, 1983], (?) Shenxi [Hu, 1984], Hubei [Zhang, 1992; Zhang, Chen, 1993].

*Clubiona (Clubiona) pseudogermanica* Schenkel, 1936  
Figs 9-12.

*C. pseudogermanica* Schenkel, 1936: 55-56, fig. 53a, b (♂, ♀).

*C. hummeli* Schenkel, 1936: 161-162, fig. 55c-d (♀, not ♂!).

*C. propinqua* — Hu, Song, 1982: 56, fig. 3 (♂).



Figs 9-13 *Clubiona pseudogermanica* Schenkel, 1936 (9-12) and *C. mayumiae* Ono, 1993 (13), right ♂ palp (9-10, 13), female genitalia (11-12), ventrally (9), tibial apophysis, retrolaterally (10, 13), epigyne (11), vulva (12).

Рис. 9-13 *Clubiona pseudogermanica* Schenkel, 1936 (9-12) и *C. mayumiae* Ono, 1993 (13), правый пальпус ♂ (9-10, 13), гениталии самки (11-12), вентрально (9), вырост голени пальпы, ретролатерально (10, 13), эпигина (11), вульва (12).

*propinqua* L. Koch, 1879, by the smaller size, the embolus rounded and attenuating, provided with an even edge, from *C. mayumiae* Ono, 1993, by the seminal duct more strongly curved (two loops in the embolic part) and a more obtuse tip of the tibial apophysis (cf. figs 10 and 13). The ♀ differs by the second spermatheca being very long, arched laterad in the parafrontal plane.

#### DESCRIPTION.

MALE. Total length 4.00-5.20. Carapace length 1.75-2.45, width 1.25-1.65, ratio 1.40-1.48. Carapace straw-coloured or reddish, chelicerae straw- or chestnut-coloured, legs straw-coloured or pale reddish. Leg armature: Ti III d.2, v.1.1 (1), Mt III d.2.1.2 (2.1.2.2), lat.1.2 (2),

v.2.2, IV d.2.1.2 (2.2.2), lat.1.2 (2.2), v.2.1.2 (2.2). Leg measurements:

leg	I	II	III	IV
F ♂	1.23-1.58	1.25-1.63	1.13-1.40	1.55-2.00
	♀	1.38-1.50	1.45-1.65	1.38-1.50
Pt ♂	0.63-0.83	0.65-0.83	0.53-0.68	0.65-0.80
	♀	0.88	0.88-0.93	0.68-0.70
Ti ♂	1.15-1.38	1.15-1.40	0.90-0.95	1.25-1.48
	♀	1.18-1.33	1.25-1.35	0.95-1.00
Mt ♂	0.85-1.05	0.85-1.05	0.98-1.15	1.68-1.83
	♀	0.93-1.00	0.88-0.90	1.15-1.25
T ♂	0.58-0.65	0.55-0.68	0.40-0.50	0.50-0.60
	♀	0.63-0.65	0.50-0.63	0.45-0.50

Palp as in Figs 9-10. Lengths of F, Pt, Ti and Cb are 0.53-0.75, 0.28-0.33, 0.25-0.30, 0.58-0.70, respectively.

Abdomen: Length 2.25-2.65, width 1.30-1.50, their ratio 1.73-1.77.

FEMALE. ("C. hummeli"). Total length 5.90-6.35.

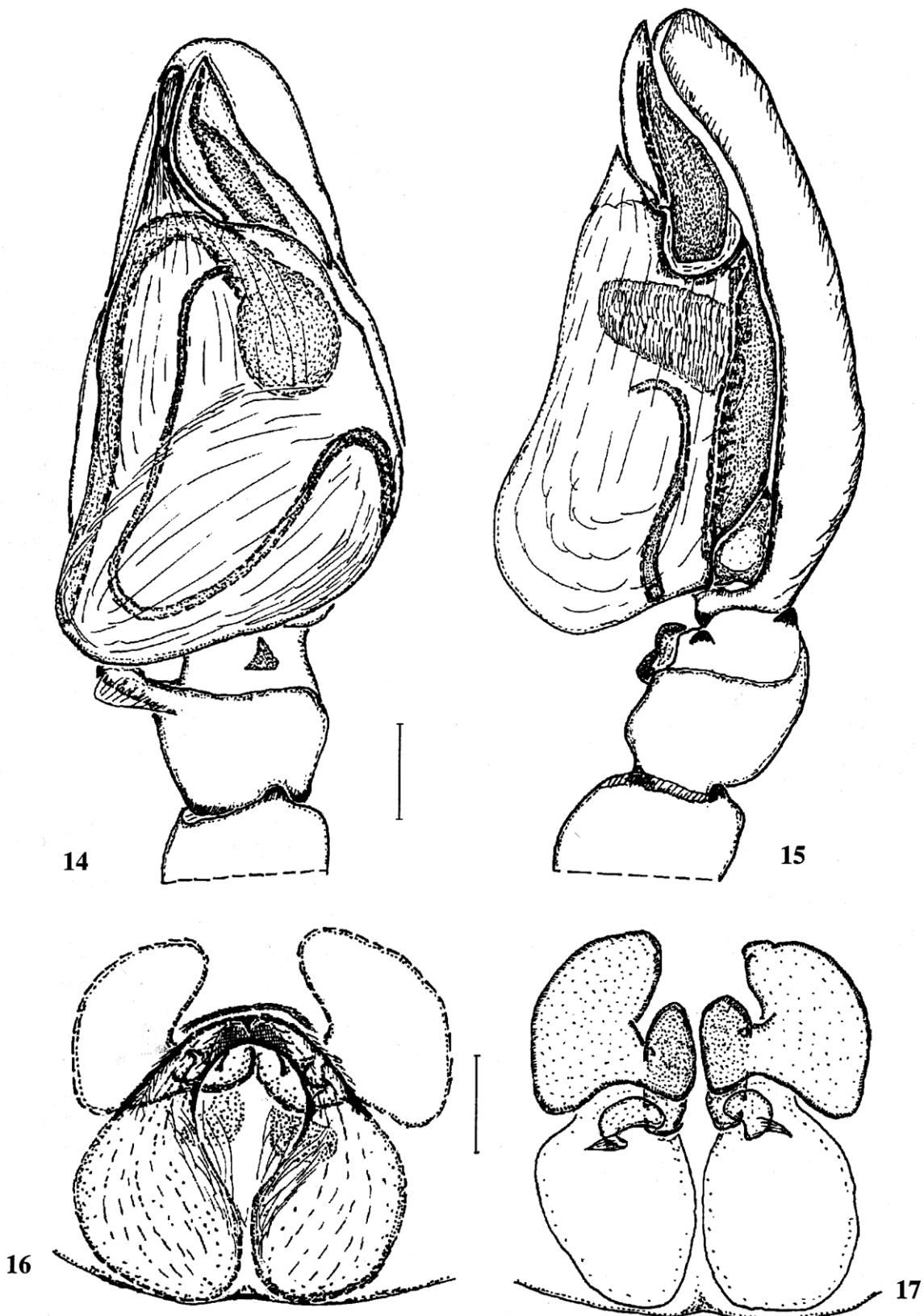
*C. hummedi* (sic!) — Hu, 1984: 290-291, fig. 305:1 (♀).  
*C. salictum* — Namkung & Kim, 1987: 24-26, figs 1-11 (♂, ♀).  
*C. hummeli* — Paik, 1990: 107-108, figs 113-120 (♀).  
*C. propinqua* — Chen & Zhang, 1991: 246-247, fig. 257: 1-2 (♀, not ♂).

*C. salictum* — Ono, 1993: figs. 9-10 (♂).

*C. hummeli* — Mikhailov, 1995a: 108-109, figs. 33-34 (♀).

MATERIAL. 1 ♂ (lectotype, designated herewith, NHMS), with the labels reading: "K5: *Clubiona pseudogermanica* Schkl. Typus", "Sven Hedin's Exp. Ctr. Asien, Dr. Hummel", "Kina, S.Kansu", 1 ♂ (NHMB), with the labels reading: "*Clubiona pseudogermanica* Schkl. Co-Typ Hummel coll. Tan-Chang, S.Kansu 28.IX.30", "1932-a paratypoid", 1 ♀ (NHMS), with the labels reading: "K5: *Clubiona hummeli* Schkl. Typen", "Sven Hedin's Exp. Ctr. Asien Dr. Hummel", 1 ♀ (NHMB), with the label reading: "1926-a Paratypoide, *Clubiona hummeli* Schkl. Co-Typ ♀ + palpus ♂. Tan-chang, S.Kansu 28.IX.30" (the ♂ palp actually belongs to *C. hummeli*, see above).

DIAGNOSIS. From the *pallidula*-group, the *propinqua*-subgroup [Mikhailov, 1995b]. The ♂ differs from *C.*



Figs 14-17. *Clubiona pyrifera* Schenkel, 1936, ♂ lectotype, palp (14-15), ♀ (16-17), ventrally (14), ventro-prolateral (15), epigyne (16), vulva (17).

Рис. 14-17. *Clubiona pyrifera* Schenkel, 1936, лектотип ♂, пальпус (14-15), ♀ (16-17), вентрально (14), вентро-пролатерально (15), эпигина (16), вульва (17).

Carapace length 2.75-2.95, width 1.90-2.00, their ratio 1.38-1.45. Carapace reddish-brown, chelicerae dark reddish-brown. Legs straw-coloured. Leg armature: Mt III d.2.1.2 (2.2), lat.1.2, v.2.2. Leg measurements as above.

Abdomen pale greyish-brown or brown, its length 3.50, width 1.80-2.35, their ratio 1.49-1.94. Epigyne as in Figs 11-12.

**REMARKS.** The synonymy of *C. chikunii* Hayashi, 1986 under "*C. propinqua*" (= *C. pseudogermanica*) by Zhang [1991] is obviously wrong.

**DISTRIBUTION.** RUSSIA: Maritime Province [Mikhailov, 1995a: *C. hummeli*, ♀]. JAPAN: Honshu [Hayashi, 1994: *C. pseudogermanica*]. N-KOREA [Mikhailov, 1995a: *C.h.*, ♀]. S-KOREA [Namkung, Kim, 1987: *C. salictum*; Paik, 1990: *C.h.*, ♀]. CHINA: Gansu [Schenkel, 1936: *C.h.* + *C.ps.*; Hu, Song, 1982: *C. propinqua*, ♂; Zhu, 1983: *C.h.* + *C.pr.*; Hu, 1984: *C.h.*, ♀ + *C.pr.*, ♂; Song, 1987: *C.pr.*, ♂], Ningxia [Hu, 1984: *C.h.*, ♀], Shenxi [Zhu, 1983: *C.h.*; Hu, 1984: *C.h.*, ♀], Liaoning [Song, 1987: *C.pr.*, ♂], Jilin [Zhu, 1983: *C.h.* + *C.pr.*; Hu, 1984: *C.h.*, ♀ + *C.pr.*, ♂], Henan [Zhu, 1983: *C.h.*; Hu, 1984: *C.h.*, ♀], Shandong [Zhu, 1983: *C.h.*; Hu, 1984: *C.h.*, ♀], Anhui [Zhu, 1983: *C.h.*; Hu, 1984: *C.h.*, ♀; Chen, Zhao, 1993: *C.h.*, ♀], Zhejiang [Chen, Zhang, 1991: *C.pr.*, ♂♀], Hunan [Hu, Song, 1982: *C.pr.*, ♂; Zhu, 1983: *C.h.* + *C.pr.*; Hu, 1984: *C.h.*, ♀ + *C.pr.*, ♂].

*Clubiona(Paraclubiona) pyrifera* Schenkel, 1936  
Figs 14-17.

*Clubiona pyrifera* Schenkel, 1936: 156-159, fig. 54a-c (♂♀).

**MATERIAL.** 1 ♂ (lectotype, designated herewith), 1 ♀ (paralectotype), 2 juv. (NHMS), with the labels reading: "Clubiona pyrifera Schenk. TYPEN", "Sven Hedin's Exp. Ctr. Asien Dr Hummel", "Kina, S.Kansu".

**DIAGNOSIS.** The ♂ differs by the moderate overgrowth of the tegulum, the absence of a distinct embolus, and the presence of a large, not strongly sclerotized tegular apophysis. The ♀ differs by the large, elongate-ovoid genital groove well-sclerotized at the front edge, as well as by the arched copulatory tubes directed laterally and backwards.

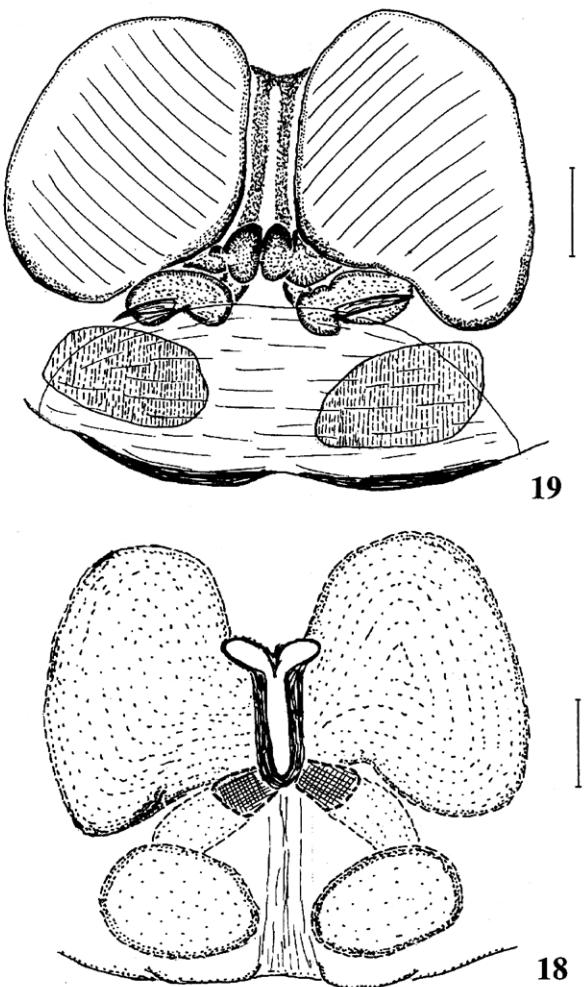
**DESCRIPTION. MALE.** Total length 5.00. Carapace length 2.25, width 1.50, their ratio 1.50. Carapace, chelicerae and legs reddish-brown. Leg armature: Ti III d.2.2, v.1.1.2 (1.2), IV d.2.2, v.1.1.2. Leg measurements:

leg	I	II	III	IV
F ♂	1.53	1.63	1.38	1.95
♀	1.73	1.70	1.53	2.15
Pt ♂	0.80	0.85	0.68	0.80
♀	1.00	1.03	0.78	1.00
Ti ♂	1.50	1.50	1.13	1.70
♀	1.43	1.50	1.15	1.75
Mt ♂	1.25	1.25	1.40	2.08
♀	1.10	1.15	1.33	2.13
T ♂	0.68	0.75	0.50	0.65
♀	0.75	0.75	0.60	0.63

Palp as in Figs 14-15. Lengths of Cb, Ti, Pt, and F are 0.95, 0.25, 0.38, and 0.85, respectively.

Abdomen cream-reddish-brown, its length 2.95, width 1.60, their ratio 1.84.

**FEMALE.** Total length 6.25. Carapace length 2.75, width 1.90, their ratio 1.45. Coloration of body and appendages as in ♂. Leg armature: F II d.1.1.2 (1.1.3), Ti III d.2.2, v.1.1.1. Leg measurements as above.



Figs 18-19. *Clubiona violaceovittata* Schenkel, 1936, ♀ holotype, epigyne (18), vulva (19).

Рис. 18-19. *Clubiona violaceovittata* Schenkel, 1936, ♀ голотип, эпигина (18), вульва (19).

Abdomen: Length 3.40, width 2.15, their ratio 1.58. Epigyne as in Figs 16-17.

**REMARK.** The drawings of "*C. pyrifera*" in Hu [1984: fig. 314: 1-4, ♂ & ♀] are obviously referred in fact to a *Castianeira* sp.

**DISTRIBUTION.** CHINA: Gansu [Schenkel, 1936], ? Hubei [Zhu, 1983].

*Clubiona(Paraclubiona) violaceovittata* Schenkel, 1936  
Figs 18-19.

*Clubiona violaceovittata* Schenkel, 1936: 167-168, fig. 58 (♀).

**MATERIAL.** 1 ♀ (lectotype, designated herewith), 1 ♂, 4 juv. (NHMS), with the labels reading: "K10: *Clubiona violaceovittata* Schenk. Typen", "Sven Hedin's Exp. Ctr. Asien Dr Hummel", "Kina S.Kansu", 1 ♀ (NHMB), with the labels reading: "*Clubiona violaceovittata* Schenk Co-Typ Tsago-shan, S.Kansu, 29.X.1930 Hummel coll. unter Rinde", "1935-a Paratypoid".

**DIAGNOSIS.** Differs from other congeners by the characteristic shape of the genital groove (Fig. 18).

**DESCRIPTION. FEMALE.** Total length 4.90-5.50. Carapace length 2.25-2.35, width 1.50-1.55, their ratio

1.45-1.57, reddish-brown. Chelicerae dark reddish-brown, legs pale reddish-brown. Leg armature: F II d.1.2.2 (1.2.3, 1.3.2, 1.3.3), III d.1.3.3 (1.2.3), IV 1.1.3 (1.2.3), Ti III d.2.2, v.2.1.2 (2.1.1, 1.1.1), IV d.2.2 (1.2.2), v.2.1.2 (1.1.2), Mt III d.2.1.2, lat.2.2, v.2.2 (2.1.2). Leg measurements:

leg	I	II	III	IV
F	1.58-1.63	1.63-1.75	1.48-1.50	1.75-1.93
Pt	0.90-0.95	0.93-0.98	0.70-0.80	0.80-0.88
Ti	1.35-1.43	1.48-1.55	1.03-1.08	1.50-1.53
Mt	1.10-1.13	1.18-1.25	1.25-1.30	1.90-1.95
T	0.60-0.63	0.60-0.68	0.43	0.50-0.55

Abdomen cream-brown or cream-straw-coloured: length 3.05-3.40, width 1.80-2.00, thei ratio 1.53-1.89. Epigyne as in Figs 18-19.

MALE unknown.

DISTRIBUTION. CHINA: Gansu [Schenkel, 1936].

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