Pholcus spilis Zhu & Gong, 1991

[Probable misidentification: Chen & Gao 1990: 40 “*Pholcus crypticolens*”]

Zhu, M.S., Gong, L-S. 1991. Four new species of the genus *Pholcus* from China. Acta Zootaxonomica Sinica 16(1): 18-26.

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星斑幽灵蛛，新种 *Pholcus spilis* sp. nov.（图 4）

正模♂，配模♀，副模 1♂ 2♀♀，湖南道县，1984 年 5 月 27 日，龚联遛采。

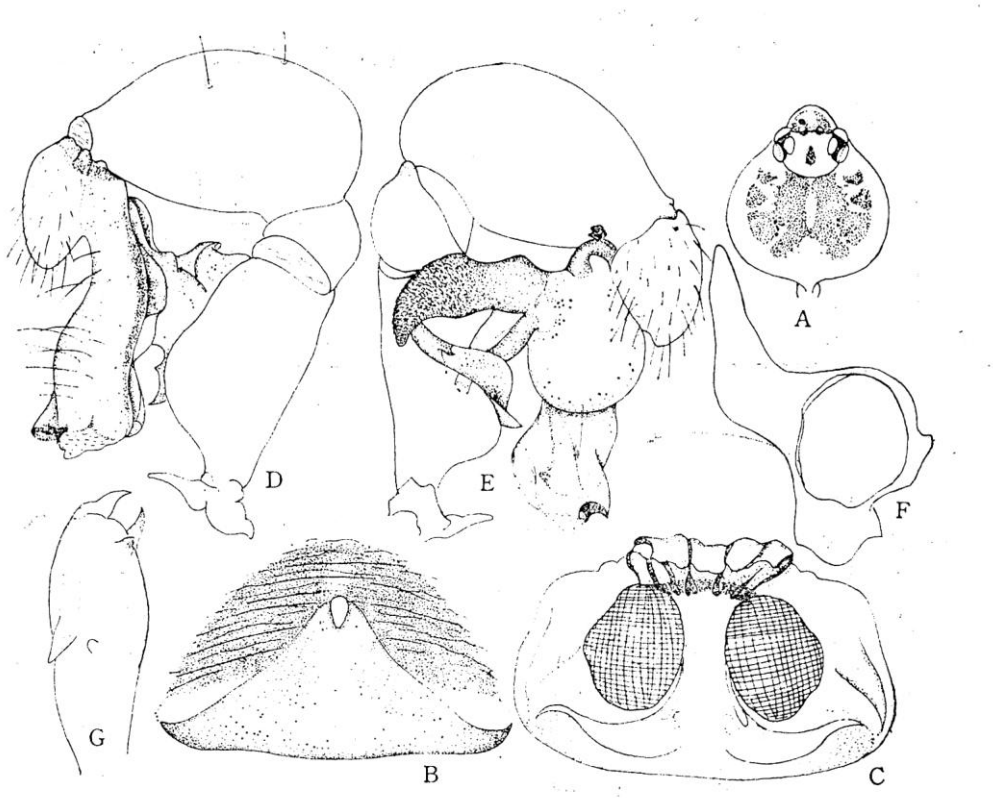

图 4 星斑幽灵蛛，新种 *Pholcus spilis* sp. nov.

A. 头胸部背面 (cephalothorax, dorsal view) B. 外雌器外面 (epigynum, external view)
C. 同上，内面 (do., vulva) D. 雄蛛左触肢外侧面(♂ left palpal organ, exo-lateral view)
E. 同上，内侧面 (do., endo-lateral view) F. 雄蛛触肢器转节 (♂ trochanter of palp)
G. 雄蛛螯肢 (♂ chelicera)

雄蛛体长 3.34—3.37。头部隆起。头胸部黄橙色，头部中央有 1 块褐色斑，胸区中线两侧各有 1 块褐色花斑。额长而向前倾斜，中央有 1 对褐色斑。从背面观察，两眼列均前凹。前中眼间距大于前中侧眼间距(0.07:0.05)；中眼区域后边大于前边(0.26:0.07)，宽大于长 (0.26:0.10)。 各眼直径之比为： 前中眼＜后中眼＜前侧眼＝后侧眼 (0.05:0.14:0.17:0.17)。螯肢前、后齿堤各有 1 齿，螯肢前面近中央部位置有 2 突起。胸板棕色，中央有 1 个、两侧各有 3 个淡色斑。步足黄色，有棕色环纹和斑点。腹部筒形，橙黄色，腹背面有对称的棕色点斑。触肢器如图。

正模测量 体长 3.36。头胸部 0.96 × 0.96，腹部 2.40 × 0.83。足式为 I＞IV＞II＞

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III；各足长度为：

	腿 节 femur	膝、胫节 patella, tibia	后跗节 metatarsus	跗 节 tarsus	全 长 total length
I	6.27	6.85	7.23	1.47	21.82
II	3.68	3.71	4.83	0.92	13.14
III	3.42	3.26	4.13	0.80	11.61
IV	4.99	4.06	5.18	1.39	15.62

雌蛛体长 3.49—3.52。外雌器如图。其他特征似雄蛛。

配模测量　体长 3.52。头胸部 0.96 × 0.96，腹部 2.26 × 0.96。足式为 I>IV>II>III；各足长度为：

	腿 节 femur	膝、胫节 patella, tibia	后跗节 metatarsus	跗 节 tarsus	全 长 total length
I	5.18	5.34	7.74	1.44	19.70
II	3.78	3.68	4.80	0.91	13.17
III	3.71	3.68	3.23	0.64	11.26
IV	4.22	3.71	4.61	0.90	13.44

本新种钩状突近于 *Pholcus crypticolens* Bosenberg *et* Strand (Yaginuma, 1986: 29, fig. 17)，但两者触肢器钩状突和触肢转节的形状不同；外雌器内面观两者也有明显差别。

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4. *Pholcus spilis* sp. nov. (fig. 4)

Holotype ♂, allotype ♀, paratypes 1♂·2♀♀, Dao County, Hunan Province (25°30′N, 111°35′E), May 27, 1984.

Male (Holotype) total length 3.36 mm, cephalothorax 0.96×0.96 mm, abdomen 2.40×0.83 mm. Female (Allotype): total length 3.52 mm, cephalothorax 0.96×0.96 mm, abdomen 2.26×0.96 mm.

The dorsal pattern of the cephalothorax and the shape of uncus of the new species resembles *P. crypticolens*, but it differs from the latter in having a projection on the near dorsum of the femur and the structure of epigynum and vulva, and in the shape of the appendage and spur of the trochanter.

Song, D., Zhu, M., Chen, J. 1999. The Spiders of China. Hebei Science and Technology Publishing House. 640 pp., 4 plates.

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***Pholcus spilis* Zhu *et* Gong, 1991 (fig. 24E′—H′)**
Pholcus spilis Zhu & Gong, 1991: 22, f. 4.
Distribution: Hunan (Daoxian County).

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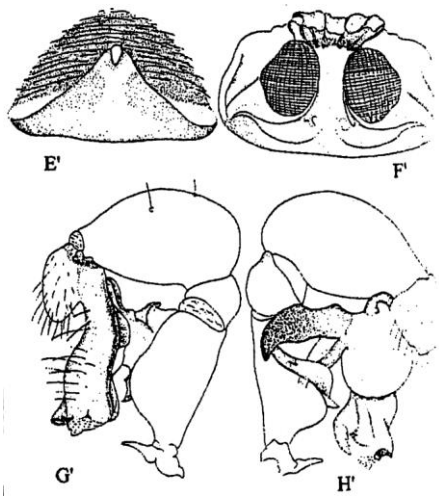

Zhang, F., Zhu, M.S. 2009. A review of the genus *Pholcus* (Araneae: Pholcidae) from China. Zootaxa 2037: 1-114.

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***Pholcus spilis* Zhu & Gong, 1991**
(Fig. 47)

Pholcus spilis Zhu & Gong 1991: 22, f. 4A–G; Song, Zhu & Chen 1999: 59, f. 24E–H

Diagnosis. This species resembles *P. crypticolens* in the shape of the palpal bulb, but can be distinguished from it by the shape of the procursus tip (Figs. 47F–G), by the triangular tip of the appendix (Fig. 47F), and by the sclerotized anterior arch of the epigynum (Fig. 47B).

Redescription. Male: A specimen measured (holotype), total length 3.4: cephalothorax 1.0 long, 1.0 wide; abdomen 2.4 long, 0.8 wide. Leg I: 21.8 (6.3+0.7+6.2+7.2+1.5), tibia II: 3.2, tibia III: 2.8, tibia IV: 3.5; Tibia I L/D: 48. Prosoma shape as in Fig. 47C. Carapace short, broad and almost circular, ochre, with pair of brown marks broadly connecting to ocular area. Cephalic region raised, with brown marks centrally, ocular area dark yellow. Clypeus 0.42, dark ochre, with yellow marks. Distance AME–AME 0.05. Diameter AME 0.06, ALE 0.17, PME 0.14, PLE 0.17. Chelicerae as in Fig. 47D, with pair of black apophyses distally, pair of unsclerotized thumb-shaped apophyses proximolaterally and pair of small unsclerotized rounded apophyses proximocentrally. Labium and endites slightly yellow. Sternum with seven regular yellowish brown spots. Femora, patellae, tibiae and metatarsi ochre, with numerous dark brown dots on them, tarsi brown. Abdomen cylindrical, pale ochre, dorsum with numerous small blackish brown spots as in *P. crypticolens*. Venter pale brown, with dark brown longitudinal stripe centrally. Palps as in Figs. 47F and 47G, with a long uncus, appendix with a large triangular tip.

Female: in general very similar to male. A specimen measured ('allotype'), total length 3.5: cephalothorax 1.0 long, 1.0 wide; abdomen 2.3 long, 1.0 wide. Tibia I: 4.7. Distance AME–AME 0.05. Epigynum distinctly triangular as in Fig. 47A, with a knob-shaped apophysis on the top. Dorsal view as in Fig. 47B, with a sclerotized arch resembling grasping fingers anteriorly and a pair of large oval pore plates centrally.

Distribution. Hunan, Hubei, Sichuan, Guizhou.

Material examined. CHINA: **Hunan**: Dao County, May 27, 1984, leg. L. S. Gong, Male holotype, female 'allotype', 1♂, 2♀ paratypes (MHBU); Changsha City, Mt. Yuelu, May 16, 2002, leg. Z. S. Zhang, 3♀ (MHBU); August 23, 2004, leg. M. S. Zhu, 1♂, 2♀ (MHBU). **Hubei**: Wuhan City, September, 2003, collector unknown, 1♀ (MHBU); Xuan'en County, Changtan Town, May 26, 1989, leg. M. S. Zhu, 3♂, 1♀ (MHBU); Badong County, May 20, 1989, leg. M. S. Zhu, 2♂, 2♀ (MHBU). **Sichuan**: Mt. Wolong, July 20, 2003, leg. J. X. Zhang, 2♀ (MHBU). **Guizhou**: Guiyang City, August 14, 2000, leg. J. X. Zhang, 2♀ (MHBU); Daozhen County, May 24, 2004, leg. Z. S. Zhang, 1♂,4♀ (MHBU).

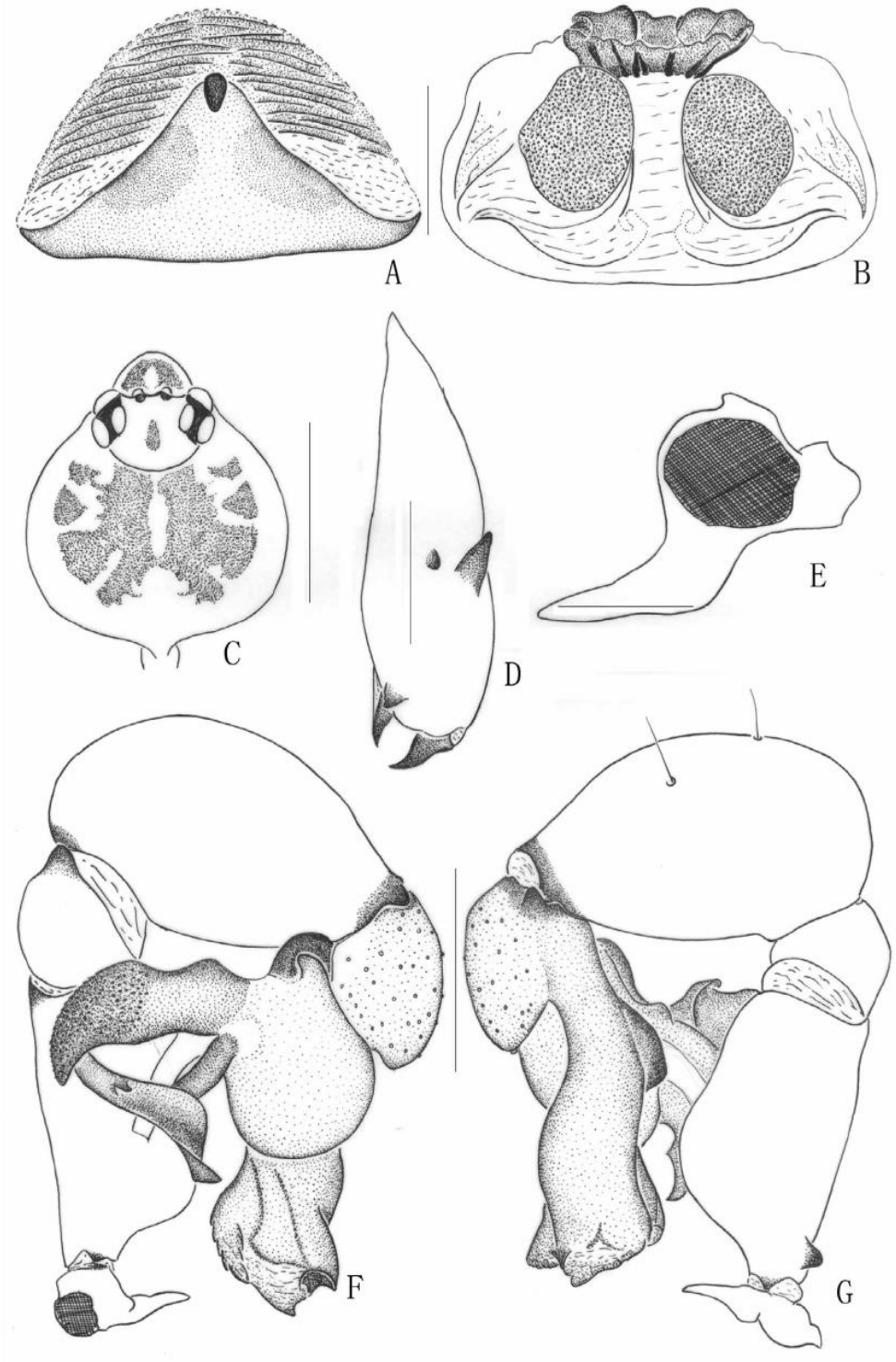

FIGURE 47. *Pholcus spilis* Zhu & Gong, 1991 (illustrations modified from Zhu & Gong 1991). A. epigynum, ventral view. B. same, dorsal view. C. male prosoma, dorsal view. D. male left chelicera, frontal view. E. trochanter of male left palp, retrolaterodorsal view. F. left palp, prolateral view. G. same, retrolateral view. Scale lines: 1.0mm (C), 0.5mm (A, B, D, F, G), 0.2mm (E).

Huber, B. A. 2011. Revision and cladistic analysis of *Pholcus* and closely related taxa (Araneae, Pholcidae). Bonner zool. Monographien 58: 1-510.

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1654. *Ph. spilis*, male, dorsal view.

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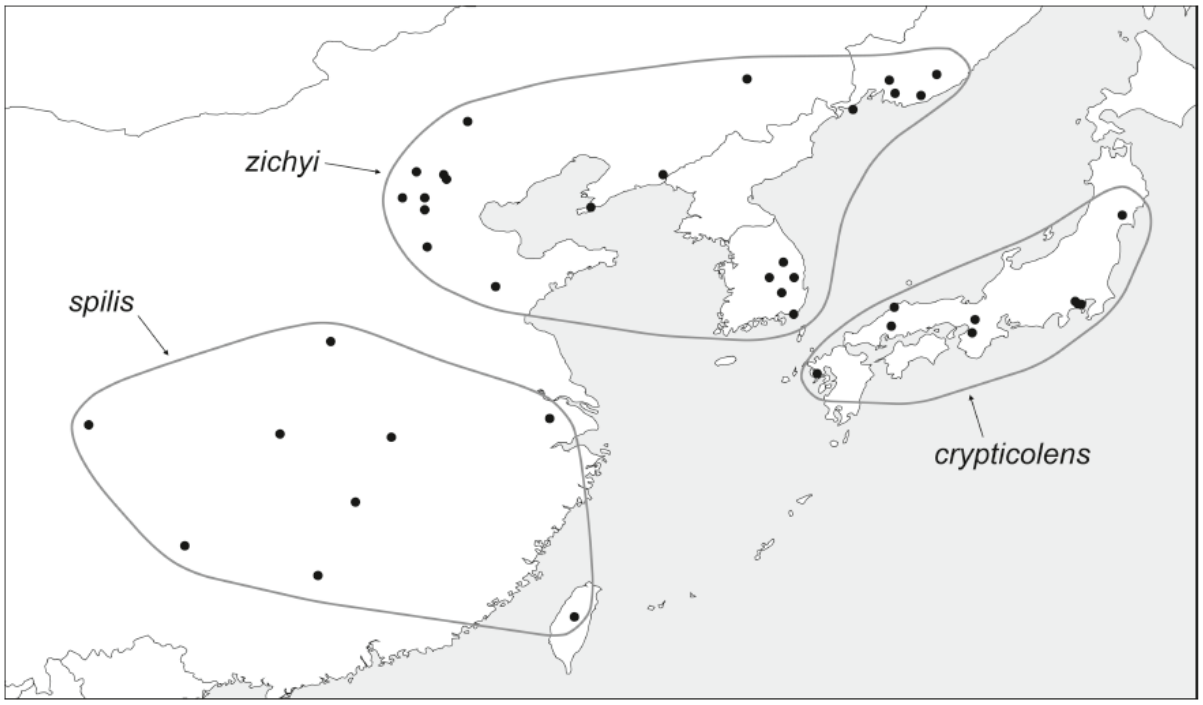

FIG. 1706. Known distribution of the *Pholcus crypticolens* species group (for *Ph. manueli* and *Ph. bessus*, see Figs. 1707, 1708).

Pholcus spilis Zhu & Gong, 1991

Figs. 1654, 1727, 1728

Pholcus spilis Zhu & Gong 1991: 22-23, 26, figs. 4a-g. Song *et al.* 1999: 59, figs. 24e'-h' (copied from Zhu & Gong 1991). Zhang & Zhu 2009a: 83, figs. 47a-g (copied from Zhu & Gong 1991).

Probable misidentification ("*Pholcus crypticolens*"): Chen & Gao 1990: 40 ("*cryticolens*", lapsus), pl. 4, fig. 25 (Sichuan).

Types. Male holotype, female "allotype", and 1♂2♀ paratypes from China, Hunan Prov., Dao County (25°30'N, 111°35'E), 27.v.1984 (L. Gong), in MHBU (1♂ paratype examined).

Diagnosis. Easily distinguished from most congeners by distinctive color pattern of carapace and abdomen (dorsally and ventrally) (Fig. 1654) and of legs (sprinkled with light brown spots). Also by morphology of male palp (Figs. 1727, 1728; shapes of procursus, uncus, and appendix); from the very similar

Ph. crypticolens and *Ph. zichyi* only by minor details of procursus and appendix shape.

Male (paratype). Total body length 3.0, carapace width 1.0. Leg 1: 6.5 + 0.5 + 6.5, metatarsus and tarsus missing, tibiae 2 and 4 missing [tibia 4 according to Zhu & Gong (1991) and Zhang & Zhu (2009a) considerably longer than tibia 2], tibia 3: 2.9; tibia 1 L/d: 64. Habitus as in Fig. 1654. Carapace pale ochre-yellow with light brown pattern, ocular area not darkened, clypeus with pair of brown bands, sternum light brown with light marks near bases of coxae 2-4 and medially, legs whitish with darker rings subdistally on femora and tibiae and in patella area, many light brown spots especially on femora, abdomen ochre-gray with distinctive cuticular pattern dorsally, many indistinct darker internal spots visible through cuticle dorsally and laterally, ventrally with many brown spots arranged in median band, genital area light brown. Distance PME-PME 240 µm, diameter PME 115 µm, distance PME-ALE 25 µm, distance AME-AME 45 µm, diameter AME 80 µm Ocular area moderately elevated, some stronger hairs posteriorly, each triad slightly projecting towards lateral. No thoracic furrow; clypeus unmodified Chelicerae missing in paratype. Sternum wider than long (0.7/0.6), unmodified. Palps as in Figs. 1727 and 1728, coxa unmodified, trochanter with slender retrolateral apophysis curving towards ventral, femur with proximal apophysis dorsally (slightly smaller than in *Ph. crypticolens*) and rounded hump ventrally tibia ventrally unmodified, procursus very similar to *Ph. crypticolens* but without prolateral pointed apophysis, apparently only one dorsal spine, bulb very similar to *Ph. crypticolens*. Legs without spines and curved hairs, few vertical hairs; retrolateral trichobothrium on tibia 1 at 5%; prolateral trichobothrium absent on tibia 1, present on other tibiae. Tarsal pseudosegments indistinct except distally.

Female. Similar to *Ph. crypticolens* and *Ph. zichyi*, see Zhu & Gong (1991) (and Zhang & Zhu 2009a).

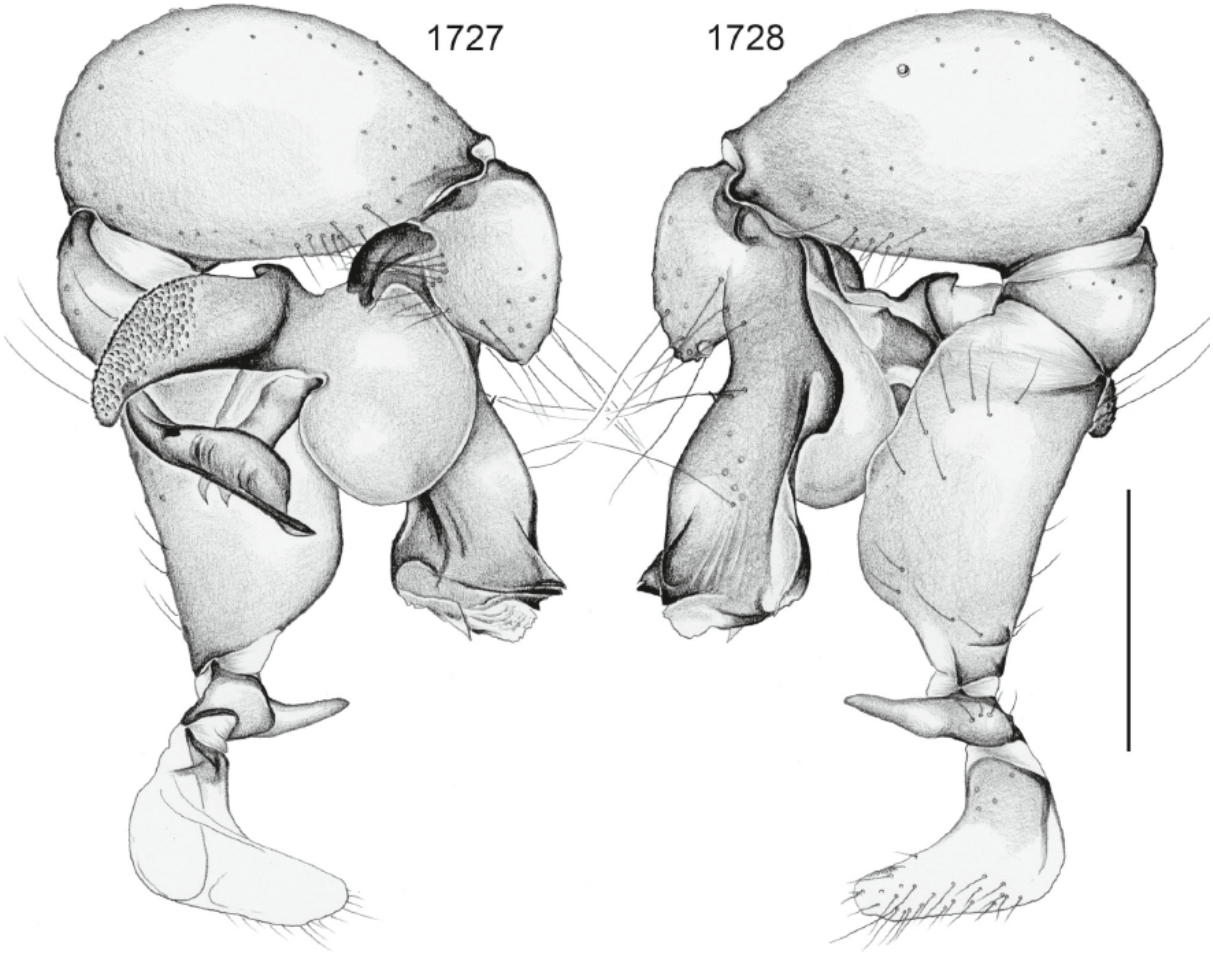

FIG. 1727, 1728. *Pholcus spilis*, left male palp, prolateral and retrolateral views. Scale line: 0.5.

Distribution. Widely distributed in southern China: Hunan, Hubei, Sichuan, Jiangsu, and Guizhou Provinces (see Zhang & Zhu 2009a) (Fig. 1706). Further records of "*Pholcus crypticolens*" from southern China may also refer to this species (e.g., Zhejiang in Chen & Zhang 1991).

Material examined. CHINA: *Hunan Prov.*: Dao County: 1♂ paratype above. *Jiangsu Prov.*: Soochow [=Suzhou, 31°19'N, 120°36'E], no further data, 1♂1♀ in AMNH.