

Pholcus oculus Zhang & Zhang, 2000

Zhang, F. & Zhang, J. 2000. Three new species and a new discovery of female of genus *Pholcus* from Taihang Mts., China. J. Hebei Univ. 20(2): 151-156.

p. 151

弯曲幽灵蛛, 新种 *Pholcus oculus* sp. nov. (图 1)

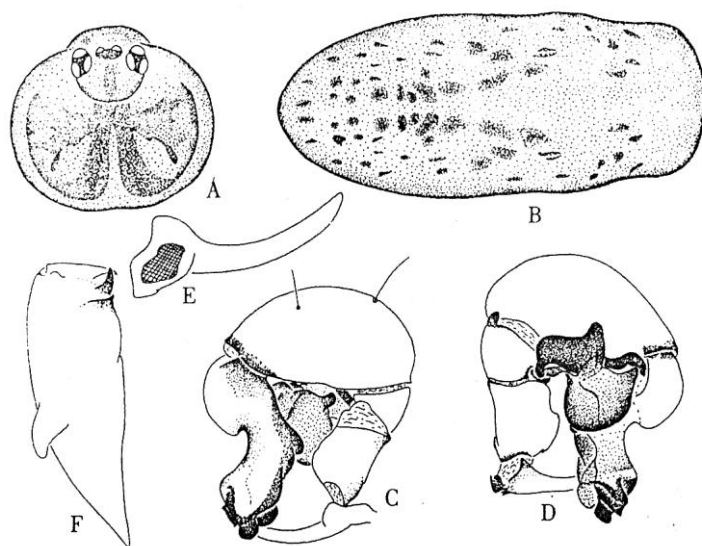


图 1 弯曲幽灵蛛 *Pholcus oculus* sp. nov.

A. 雄蛛头胸部背面观; B. 雄蛛腹部背面观; C. 雄蛛左触肢器外侧面观;
D. 雄蛛左触肢器内侧面观; E. 雄蛛触肢转节; F. 雄蛛螯肢

p. 152

正模♂, 副模2♂♂, 河北省武安市列江, 1999-05-19, 海拔700~900 m, 张锋采。

雄蛛(正模)体长5.60。头胸部长1.67, 宽1.80; 腹部长3.78, 宽1.80。头部隆起, 中央具1棒状斑, 后中眼后方两侧各有数根长毛。胸部黄色, 中线两侧各有1块棕色花斑, 中央具1纵列毛。额较高(0.71), 向前倾斜, 中央有1棕色斑。从背面观察, 两眼列均后凹。前中眼间距小于前中侧眼间距(0.04:0.05); 后中眼间距大于后中侧眼间距(0.25:0.03); 中眼域后边大于前边(0.45:0.25), 长小于宽(0.13:0.45)。前中眼<前侧眼<后中眼=后侧眼(0.08:0.10:0.13:0.13)。螯肢前、后齿堤各有1齿, 螯肢前面近中央位置有1个突起。颚叶桔黄色, 端部倾斜。下唇、胸板棕色, 胸板中央有1个、两侧各有3个黄斑。步足黄褐色, 具有棕色环形斑。步足测量: I 38.07(9.90+10.35+15.30+2.52); II 27.27(7.65+7.65+10.35+1.62); III 18.05(6.21+5.13+5.45+1.26); IV 25.97(7.83+6.75+9.95+1.44)。步足式: 1, 2, 4, 3。腹部长卵圆形, 黄褐色, 背面两侧具灰褐色斑点, 腹面无斑纹。纺器黄褐色。

本新种近于林州幽灵蛛 *Pholcus linzhou* sp. nov., 但有如下两点区别: (1) 新种跗前突上有刷状突, 端部无尖的突起; (2) 2种触肢器的钩状突不同。

词源学 本新种的种名以雄蛛触肢跗前突的形状而拟定。

Pholcus oculusus sp. nov. (fig. 1)

Holotype ♂, paratypes 2 ♂♂, Liejiang Town, Wuan County, Hebei Province, May 19, 1999, alt. 700 ~ 900 m, collected by Zhang Feng.

Male holotype. Total body length 5.60. Cephalothorax 1.67 long, 1.80 wide; abdomen 3.78 long, 1.80 wide.

This new species resembles *Pholcus linzhou* sp. nov., but can be readily distinguished from the latter by: (1) protarsus of male palp with brush-like projection, the end of protarsus no sharp process; (2) the uncus is different.

Etymology: The specific name is due to the structure of protarsus of male palp.

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

Pholcus oculusus Zhang & Zhang, 2000

(Fig. 30)

Pholcus oculusus Zhang & Zhang 2000: 151, f. 1A–F.

Diagnosis. Among its close *Pholcus* relatives (see the remark of *P. henanensis*), this species is very similar to *P. linzhou* in the shape of the palpal bulb and epigynum, but can be distinguished from it by the shape of the tip of the procurus (Figs. 30D–E) and by the shape of the uncus (Fig. 30D).

Redescription. Male (holotype), total length 5.5: cephalothorax 1.7 long, 1.8 wide; abdomen 3.8 long, 1.8 wide. Leg I: 38.1 (9.9+0.8+9.6+15.3+2.5), tibia II: 7.1, tibia III: 4.6, tibia IV: 6.1; tibia I L/D: 60. Prosoma shape as in Fig. 30A. Carapace short, broad and almost circular, ochre, with pair of brown central marks broadly connecting to ocular area. Cephalic region raised, with brown stripe centrally, ocular area dark yellow. Clypeus 0.71, slightly ochre, with brown marks centrally. Distance AME–AME 0.04. Diameter AME 0.08, ALE 0.10, PME 0.13, PLE 0.13. Chelicerae as in Fig. 30C, with pair of black apophyses distally and pair of unsclerotized thumb-shaped apophyses proximolaterally. Labium and endites yellowish brown. Sternum ochre, with regular yellow marks on it. Femora, patellae and tibiae ochre, with dark rings, metatarsi and tarsi brown. Abdomen cylindrical, pale ochre, dorsum with numerous brown spots as in Fig. 30A. Venter pale brown, without marks. Palps as in Figs. 30D and 30E, bulb with a S-shaped uncus and short appendix.

Variation. Tibia I in two paratypes: 9.1, 9.3. Body length in two paratypes: 5.3, 5.4.

Distribution. Known from type locality only.

Material examined. CHINA: Hebei, Wu'an County, Liejiang Town, May 19, 1999, leg. F. Zhang, male holotype, 2♂ paratypes (MHBU).

Remark. This species was originally described from males only by Zhang & Zhang (2000), and according to the shape of palpal organ, it belongs to the *Pholcus* species group that includes *P. henanensis*, *P. linzhou*, *P. mianshanensis* sp. nov., *P. paralinzhou* sp. nov., *P. taishan* and *P. yugong* sp. nov., see remark *P. henanensis*,

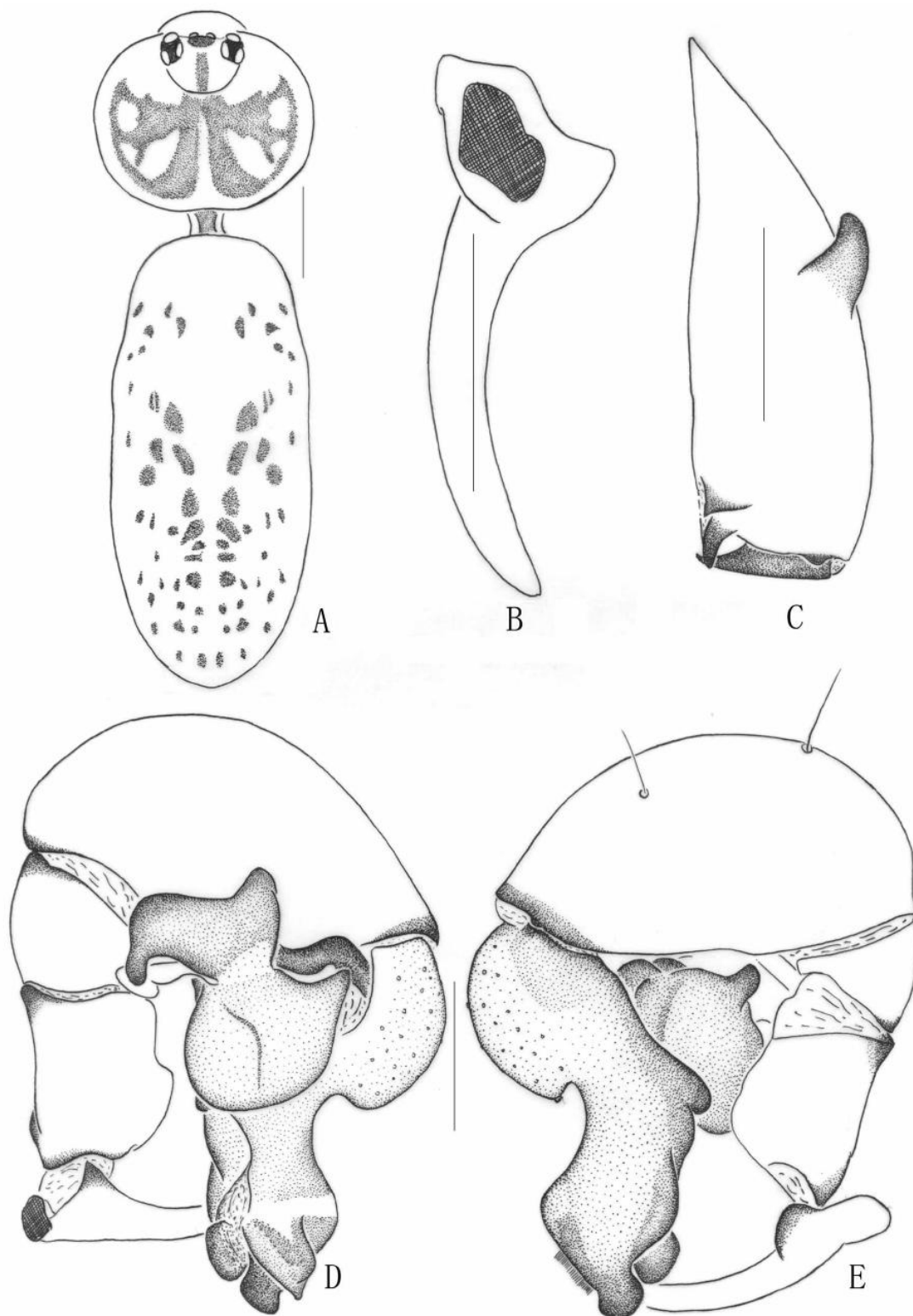


FIGURE 30. *Pholcus oculosus* Zhang & Zhang, 2000 (illustrations modified from Zhang & Zhang 2000). A. male body, dorsal view. B. trochanter of male left palp, retrolaterodorsal view. C. male left chelicera, frontal view. D. left palp, prolateral view. E. same, retrolateral view. Scale lines: 1.0mm (A), 0.5mm (B–E).

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

p. 445



2103. *Ph. taishan*, male prosoma, dorsal view; female abdomen, ventral view. 2104. *Ph. oculusus*, male, dorsal view. 2105-2107. *Ph. linzhou*, male, dorsal and lateral views; female abdomen, ventral view. 2108-2110.

p. 456

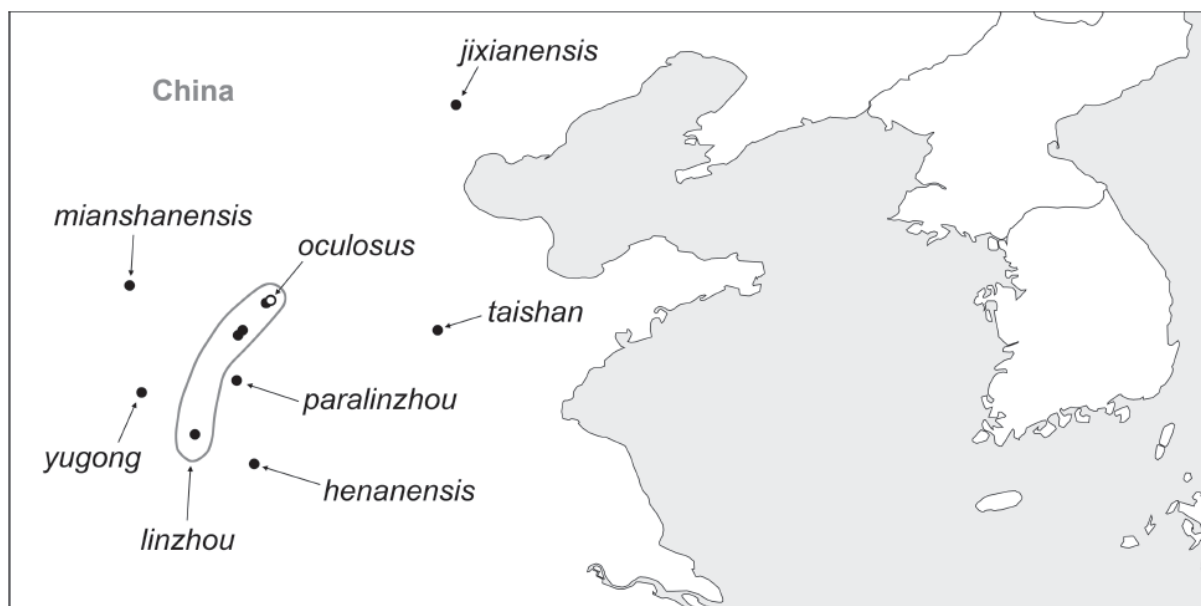


FIG. 2200. Known distribution of the *Pholcus taishan* species group.

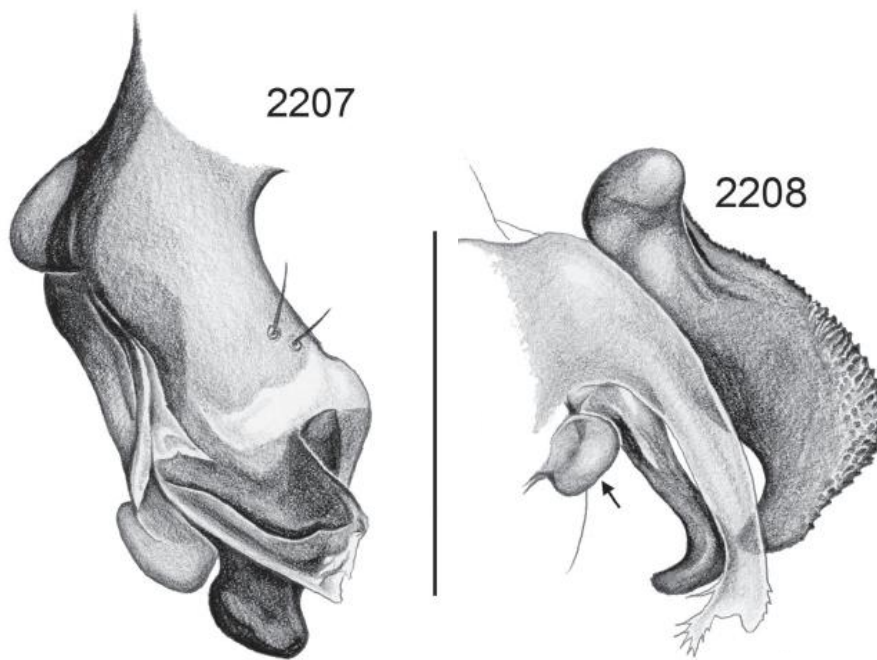


FIG. 2205-2210. *Ph. oculosus* (2207, 2208),
Left procursi, prolateral views (at same scale), and left bulbal processes, retrolateral views (at same scale; arrows point at bulbal projection characteristic of the *Ph. taishan* species group). Scale lines: 0.5.

Pholcus oculosus Zhang & Zhang, 2000

Figs. 2104, 2207, 2208

Pholcus oculosus Zhang & Zhang 2000: 151-152, 155, figs. 1a-f. Zhang & Zhu 2009a: 59, figs. 30a-e (copied from Zhang & Zhang 2000).

Types. Male holotype, 2♂ paratypes from China, Hebei Prov., Wu'an County [~36°42'N, 114°12'E], Liejiang Town, 700-900 m a.s.l., 19.v.1999 (F. Zhang), in MHBV (1♂ paratype examined).

Diagnosis. Distinguished from similar species with long trochanter apophysis and large proximal male cheliceral apophysis by shapes of procursus, uncus, and appendix (Figs. 2207, 2208).

Male (paratype). Total body length 5.2, carapace width 1.7. Leg 1: 11.1 + 0.7 + 10.9, metatarsus and tarsus missing, tibia 2: 7.5, tibia 3: 5.3, tibia 4: 7.3; tibia 1 L/d: 59. Habitus as in Fig. 2104. Carapace ochre-yellow with distinct brown pattern, ocular area light brown with darker median mark, clypeus with pair of brown marks fusing distally, sternum brown with indistinct lighter marks near coxae 2-4, legs light brown, darker on femora subdistally and tibiae proximally and subdistally, tips of femora and tibiae pale ochre-yellow, abdomen ochre-gray with many black spots dorsally, ventrally only genital area light brown. Distance PME-PME 265 µm, diameter PME 135 µm, distance PME-ALE 60 µm, distance

AME-AME 60 μm , diameter AME 90 μm . Ocular area elevated, many stronger hairs posteriorly (most missing). No thoracic furrow; clypeus unmodified. Chelicerae as in *Ph. linzhou* (cf. Fig. 2213), only slightly larger, proximal apophyses minimally smaller. Sternum wider than long (1.3/0.9), unmodified. Palps in general very similar to *Ph. linzhou* (cf. Figs. 2211, 2212), trochanter apophysis thinner and not bent at tip, procursus and bulbal processes clearly different (Figs. 2207, 2208). Legs without spines and curved hairs, few vertical hairs (most hairs missing); retrolateral trichobothrium on tibia 1 at 6%; prolateral trichobothrium absent on tibia 1, present on other tibiae.

Female. Unknown.

Distribution. Known from type locality only (Fig. 2200).

Material examined. CHINA: *Hebei Prov.*: Wu'an County: Liejiang: 1♂ paratype above.