

***Pholcus taishan* Song & Zhu, 1999**

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 taishan* Song et Zhu, sp. nov. (fig.25L—S)**

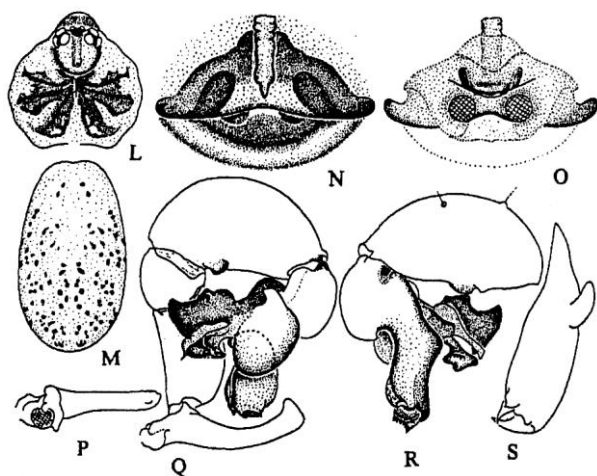
Holotype: male; paratypes: 4 males, 6 females, Mt. Taishan, Shandong Province, August 5, 1988, by Zhu, M. S.

Length of males 4.65—4.71mm. Length of holotype 4.71: cephalothorax 1.39 long, 1.46 wide; abdomen 3.32 long, 1.72 wide. Carapace yellow. Both sides of thoracic region each with a yellowish brown spot. Two eyes rows recurved. AME-AME 0.04, AME-ALE 0.06, PME-PME 0.23, PME-PLE 0.03. Labium and endites yellowish brown. Legs yellow. I 38.50 (9.80, 10.40, 16.10, 2.20), II 19.55 (5.70, 5.50, 16.10, 2.20), III 19.95 (5.70, 5.50, 7.60, 1.10), IV 26.70 (7.60, 7.50, 10.20, 1.40). Abdomen fawn, dorsum with numerous small black spots. Palp: the tip of appendix expanded; spur of trochanter long, tip enlarged.

Length of female 5.20—5.26mm. Body length 5.26: cephalothorax 1.46 long, 1.88 wide; abdomen 3.80 long, 2.20 wide. Color and markings as in male. Legs: I 34.80 (8.60, 9.50, 14.50, 2.20), II 24.60 (6.70, 6.80, 9.60, 1.50), III 18.20 (5.20, 5.00, 6.90, 1.10), IV 24.40 (6.90, 6.60, 9.50, 1.40). Epigyne blackish brown, scapus remarkably long.

Note: This new species resembles *Pholcus henanensis* Zhu et Mao, 1983, but can be readily distinguished from the latter by: 1. the top of uncus rounded in shape from prolateral view; 2. the tip of the spur of trochanter expanded; 3. scapus not reaching posterior edge of epigyne from ventral view, spermathecae globular.

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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 taishan Song & Zhu, 1999
(Fig. 53)

Pholcus taishan Song & Zhu, 1999, in Song, Zhu & Chen 1999: 63, f. 25L–S.

Diagnosis. Among its near *Pholcus* relatives (see the remark of *P. henanensis*), this species is very similar to *P. henanensis* in the shape of the palpal bulb and epigynum, both with long necktie-shaped epigynal apophysis (Fig. 53A). It can be distinguished from *P. henanensis* by the shape of procurus tip and the appendix tip (Figs. 53F–G), and by the round pore plates of the epigynum (Fig. 53B).

Redescription. Male (holotype), total length 4.7: cephalothorax 1.4 long, 1.5 wide; abdomen 3.3 long, 1.7 wide. Leg I: 38.5 (9.8+0.8+9.6+16.1+2.2), tibia II: 7.3, tibia III: 4.9, tibia IV: 6.8; tibia I L/D: 64. Prosoma shape as in Fig. 53C. Carapace short, broad and almost circular, ochre, with brown marks broadly connecting to ocular area. Cephalic region raised, with brown longitudinal stripes centrally, ocular area dark yellow. Clypeus 0.56, slightly ochre, without mark centrally. Distance AME–AME 0.04. Chelicerae as in Fig. 53E, with pair of black serrated apophyses distally and pair of unsclerotized thumb-shaped apophyses proximolaterally. Labium and endites yellowish brown. Sternum yellow, with regular light brown spots. Femora, patellae and tibiae ochre, with dark rings, metatarsi and tarsi light brown. Abdomen cylindrical, fawn, dorsum with numerous small blackish brown spots as in Fig. 53C. Venter pale brown, without markings. Palps as in Figs. 53F–G, bulb with axe-shaped uncus, appendix with swollen tip, trochanter with long ventral apophysis.

Variation. Tibia I in two male paratypes (other two males missing Leg I): 9.3, 9.4. Body length in four male paratypes: 4.3–4.7.

Female: in general very similar to male. Total length of bodies 4.7–5.3. A paratype measured (Mt. Taishan), total length 5.3: cephalothorax 1.5 long, 1.9 wide; abdomen 3.8 long, 2.2 wide. Tibia I: 8.6. Distance AME–AME 0.05. Epigynum roughly triangular as in Fig. 53A, with a long necktie-shaped apophysis on the top. Dorsal view as in Fig. 53B, with a short sclerotized arch anteriorly and a pair of round pore plates posteriorly.

Distribution. Known from type locality only.

Material examined. CHINA: **Shandong:** Tai'an City, Mt. Taishan, August 5, 1988, leg. M. S. Zhu, male holotype, 4♂, 6♀ paratypes (MHBU).

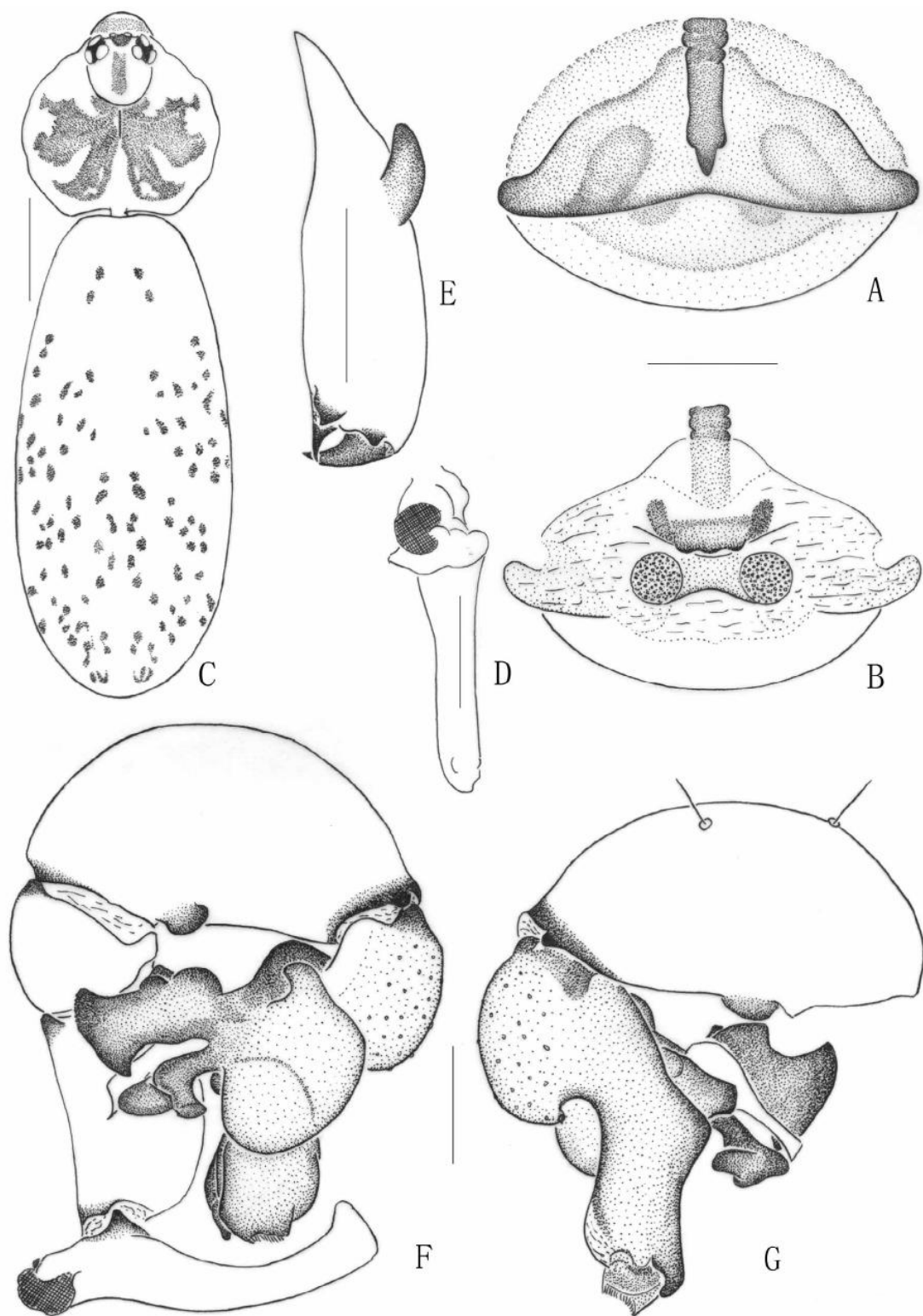


FIGURE 53. *Pholcus taishan* Song & Zhu, 1999 (illustrations modified from Song *et al.* 1999). A. epigynum, ventral view. B. same, dorsal view. male C. male body, dorsal view. D. trochanter of male left palp, retrolaterodorsal view. E. left chelicera, frontal view. F. left palp, prolateral view. G. same, retrolateral view. Scale lines: 1.0mm (C), 0.5mm (A, B, D–G).

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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2102,

2103. *Ph. taishan*, male prosoma, dorsal view; female abdomen, ventral view.

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2128, 2129. *Ph. taishan*.

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Pholcus taishan Song & Zhu, 1999

Figs. 2102, 2103, 2128, 2129, 2201-2206

Pholcus taishan Song & Zhu in Song *et al.* 1999: 63, figs. 251-s. Zhang & Zhu 2009a: 93, figs. 53a-g (copied from Song *et al.* 1999).

Types. Male holotype, 4♂6♀ paratypes from China, Shandong Prov., Tai'an City, Mt. Taishan [36°15'N, 117°05'E], 5.viii.1988 (M. Zhu), in MHBU (1♂1♀ paratypes examined).

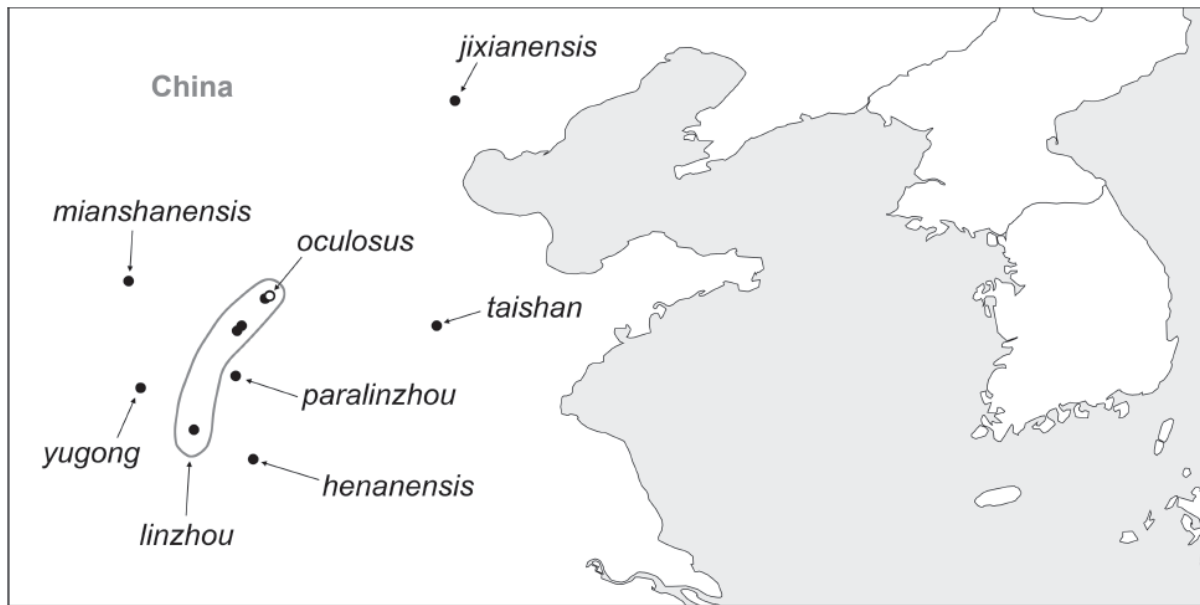


FIG. 2200. Known distribution of the *Pholcus taishan* species group.

Diagnosis. Distinguished from similar species with long trochanter apophysis, large proximal male cheliceral apophysis, and long epigynal 'knob' by shapes of procursus, uncus, and appendix (Figs. 2205, 2206) and by female genitalia (Figs. 2128, 2204); from very similar *Ph. henanensis* by wide tip of palpal trochanter apophysis (Fig. 2202) and round pore plates (Fig. 2204).

Male (paratype). Total body length 5.4, carapace width 1.8. Leg 1: 39.5 (9.8 + 0.8 + 9.7 + 16.7 + 2.5), tibia 2: 6.7, tibia 3: 4.8, tibia 4: 6.5; tibia 1 L/d: 55. Habitus similar to *Ph. linzhou* (cf. Figs. 2105, 2106). Carapace ochre-yellow with distinct brown pattern, ocular area with brown median mark, sternum light brown, medially lighter, margins darker, legs almost monochromous, very indistinct darker rings on femora and tibiae subdistally and in patella area, abdomen ochre-gray with indistinct spots dorsally, ventrally only genital area light brown (cf. female, Fig. 2103). Distance PME-PME 240 μ m, diameter PME 140 μ m, distance PME-ALE 55 μ m, distance AME-AME 55 μ m, diameter AME 95 μ m. Ocular area elevated, many stronger hairs posteriorly. No thoracic furrow; clypeus unmodified. Chelicerae as in *Ph. linzhou* (cf. Fig. 2213), only minimally larger and distal apophyses minimally smaller, apparently without modified hairs on distal apophyses. Sternum

wider than long (1.10/0.85), unmodified. Palps as in Figs. 2201 and 2202, coxa unmodified, trochanter with long ventral apophysis with distinctively wide tip, small retrolateral apophysis proximally, femur with low humps ventrally and prolatero-ventrally, tibia with distinct proximal apophysis prolatero-ventrally, procursus relatively simple, with two or three long prolatero-dorsal spines (Fig. 2205), bulb with rounded retrolateral protuberance, distinctive uncus and appendix, short weakly sclerotized embolus (Fig. 2206). Legs without spines and curved hairs, few vertical hairs (many hairs missing); retrolateral trichobothrium on tibia 1 at 6%; prolateral trichobothrium absent on tibia 1, present on other tibiae. Tarsal pseudosegments indistinct, only distally -10 fairly distinct.

Female. In general similar to male, triads slightly closer together (distance PME-PME 205 μ m); clypeus light brown, spots on abdomen more distinct. Tibia 1: 8.5. Epigynum with wide and long 'knob', sclerotized area diverging posteriorly, narrow sclerotized plate behind genital opening (Figs. 2128, 2203); internal genitalia as in Figs. 2129 and 2204.

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

Material examined. CHINA: Shandong Prov.: Tai'an City, Mt. Taishan: 1♂1♀ paratypes above.

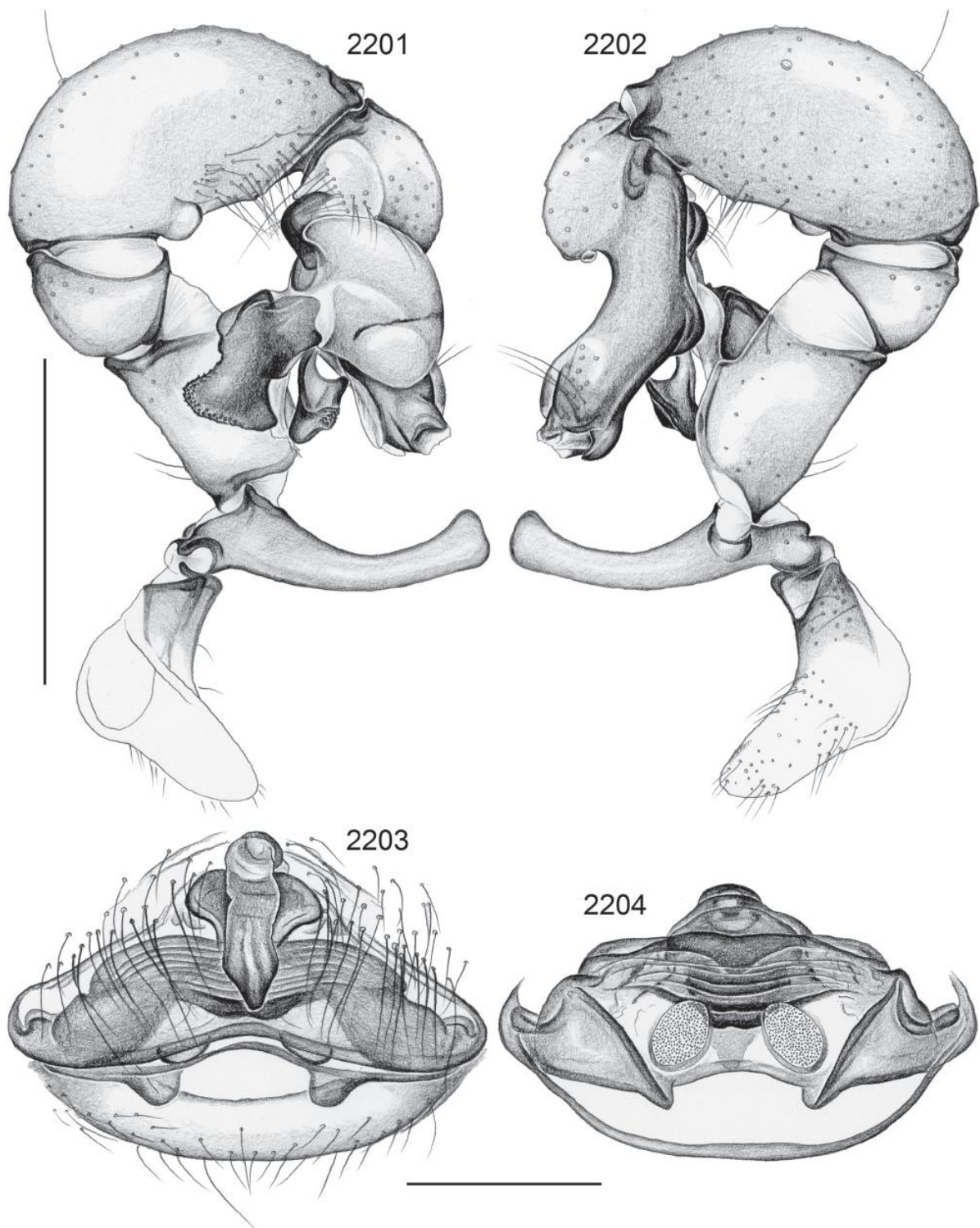


FIG. 2201-2204. *Pholcus taishan*. 2201, 2202. Left male palp, prolateral and retrolateral views. 2203, 2204. Cleared female genitalia, ventral and dorsal views. Scale lines: 1.0 (2201, 2202), 0.5 (2203, 2204).

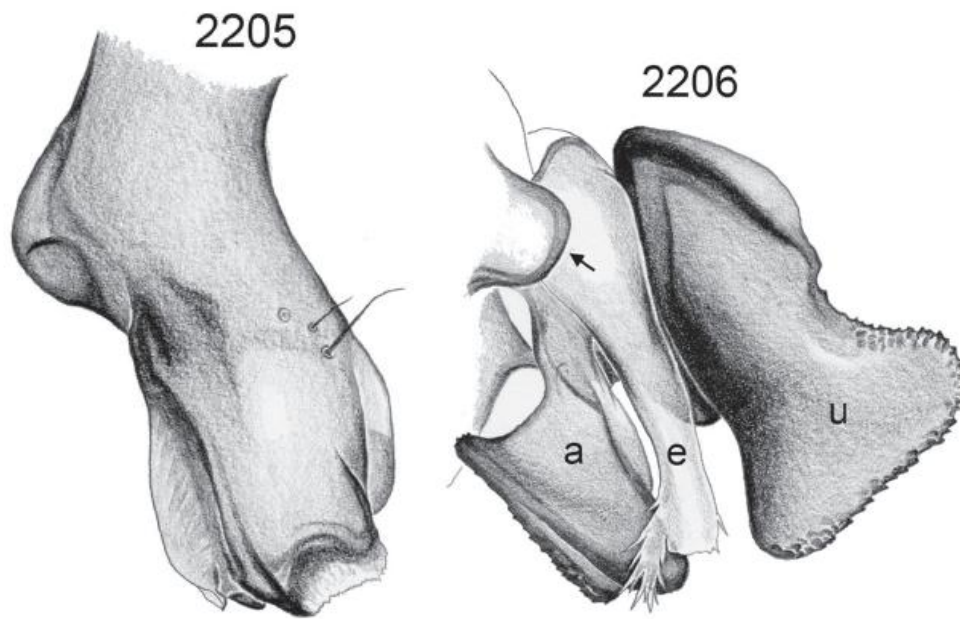


FIG. 2205-2210. *Pholcus taishan* (2205, 2206),
Left procursi, prolateral views (at same scale), and left bulbal processes, retrolateral views (at same scale; arrows
point at bulbal projection characteristic of the *Ph. taishan* species group). Scale lines: 0.5.