Pholcus socheunensis Paik, 1978

Paik, K. Y. 1978. The Pholcidae (Araneae) of Korea. Educational Journal Kyungpook Univ. 20(1978): 113-135.

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Pholcus socheunensis sp. nov.
(Figs. 5—12)

Measurements(mm.). *Male*(Holotype): BL−5.33, CL−1.77, CW−1.66, LBL +SL−1.15, LBW−0.20, SW−1.15, EDL−0.51, EDW−0.20, AER−0.67, PER −0.71, AL−3.48, AW−1.61. Leg I 47.31(12.14, 0.74, 12.21, 20.08, 2.43), II 31.93(9.12, 0.74, 8.53, 12.21, 1.62), III 22.28(6.47, 0.66, 5.59, 8.53, 1.18), IV 29.34(8.53, 0.66, 7.58, 11.25, 1.47). Palp 2.87(0.77, 0.38, 1.23, 0.49)

Female(Allotype): BL−5.27, Cl−1.59, CW−1.54, LBL+SL−1.02. LBW−0.33, SW−1.02, EDL−0.36, EDW−0.20, AER−0.61, PER−0.64, AL−3.56, AW− 2.05. Leg I 31.78(8.09, 0.59, 8.09, 12.95, 2.21), II 21.84(6.03, 0.59, 5.74, 8.38, 1.32), III 16.48(4.71, 0.59, 4.12, 6.03, 1.18), IV 22.14(6.47, 0.59, 5.74, 8.24, 1.32). Palp 1.25 (0.38, 0.15, 0.26, 0.46).

Description. *Male*(Holotype): Carapace slightly longer than the width, the index 94; pale yellow with brownish gray dorsal marking similar to *P. cryptícolens*. Eye ratio, AME<ALE=PME=PLE(11 : 14 : 14 : 14). Anterior median eyes separated from each other by 0.27 times their diameter, from lateral eyes by slightly less than radius. Posterior median eyes separated from each other

by 1.29 times their diameter, from lateral eyes by one-seventh their diameter. Median ocular quadrangle wider behind than in front (40 : 24), and wider than long (40 : 25). Anterior eyes row slightly recurved in frontal view, posterior eyes row recurved. Eye row index 94. Chelicerae grayish brown; armed with three teeth-like prominences on the front, and a tooth on the inner margin of fung-furrow. Endite and labium yellowish brown, have a tinge of gray. Endite index 39; endite converging index 22. Sternum pale yellow, the border mottled with grayish brown; widest at between the 2nd and 3rd coxae; the end broadly protruded, but not extending between 4th coxae. Legs brown in ground color, with faint yellow annulations on the femora and tibiae. Leg formula 1, 2, 4, 3; leg formular index 100 : 67 : 47 : 62. Leg I/C 26.73. Femur I/C 0.86. Abdomen cylindrical, abdominal index 46 : pale yellow with brownish gray patterns.

Male palp: The mid spine of prokursus inconspicuous. Uncus reddish dark brown, axe-shaped. Appendix reddish dark brown as the uncus; curved at right angles at mid point, therefore, it is cross with the embolus. Embolus brownish yellow. Spur of trochanter with a thumb-like projection, which bears a long bristle.

Female(Allotype): Eye ratio, AME<PME<ALE=PLE(10 : 12 : 13 : 13). Anterior median eyes separated from each other by their radius, from lateral eyes by one-fifth their diameter. Posterior median eyes separated by 1.25 times their diameter, from lateral eyes by one-sixth their diameter. Median ocular quadrangle wider behind than in front (36 : 20), and wider than the length (36 : 24). Eye row index 95. Chelicerae grayish brown. labium and sternum yellowish brown have a tinge of dark gray. Legs pale yellow, with dark annulations on the femora and tibiae. Leg formula 1, 4, 2, 3. Leg formular index 100 : 69 : 52 : 70. Leg I/C 19.99. Femur I/C 5.09. Abdominal index 58. Epigynum as shown in figs. 9 and 10.

Specimens examined. *Holotype*: ♂, 15—Ⅶ—1964, Socheun, Bongwha-gun, Kyungpook, Collected by Kap Yong Paik. *Allotype*: ♀, 20—Ⅷ—1976, Mt. Tonggo-san, Urchin-gun, Kyungpook, Collected by Kap Yong Paik. *Paratype*: Mt. Tonggo-san, Urchin-gun, Kyungpook(11♀♀, 3Y♀♀, 1♂, 6Y♂♂, 20—Ⅷ—1976, K.Y.Paik), Yongyeun-sa, Darseung-gun, Kyungpook(1♀, 15—Ⅷ—1973, Y.S.Hong).

Diagnosis. Present species very closely resembles to *P. montanus*, but differs from the latter in the shape of uncus and prokursus.

5. *Pholcus socheunensis sp. nov.*, Carapace, Male.
6. Same, Male palp, Left, frontal view.
7. Same, Uncus, embolus, appendage and bulb, Left, ectal view.
8. Same, Trochanter of male palp, Left, ventral view.
9. Same, Epigynum.
10. Same, Epigynum, lateral view.
11. Same, Genitalia, inner view.
12. Same, Male palp, Left, ectal view.

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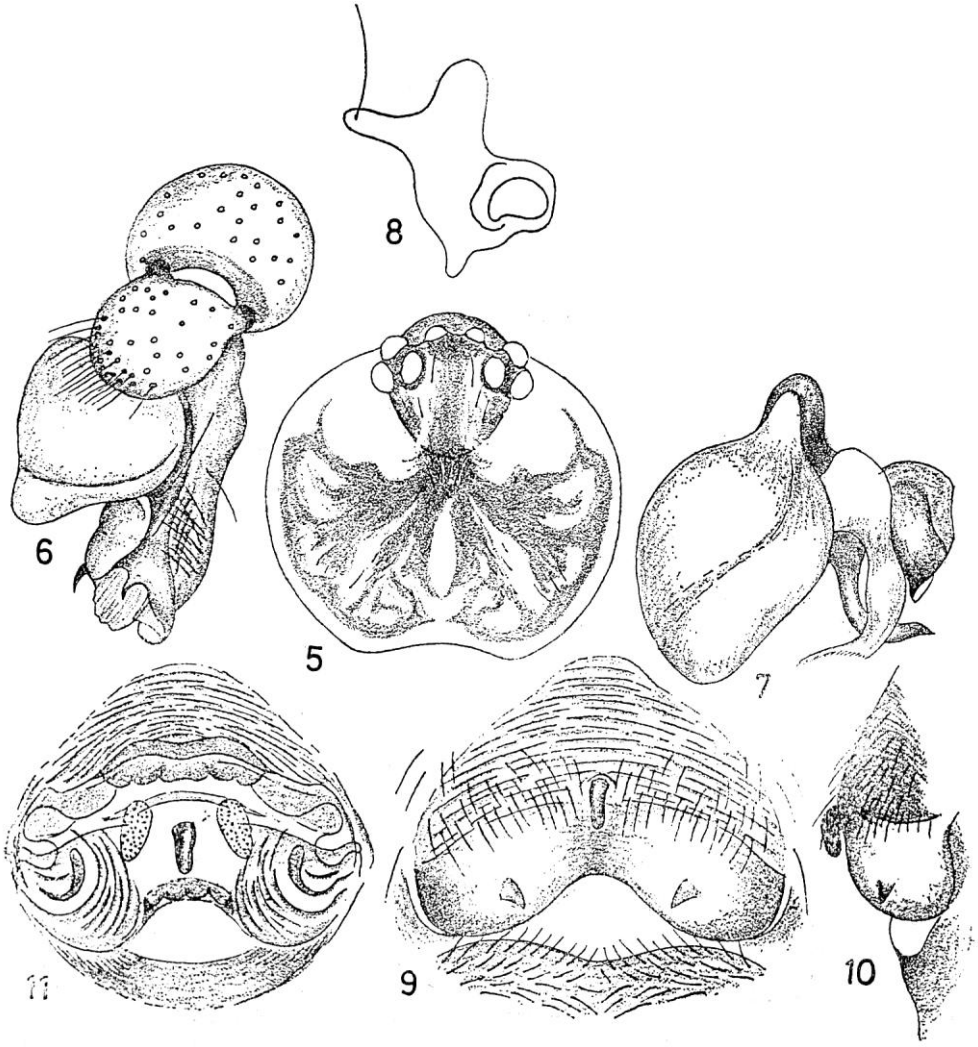

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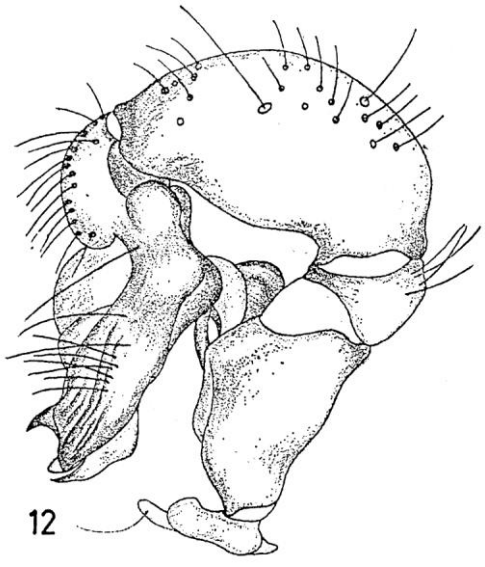

Huber, B. A. 2011. Revision and cladistic analysis of *Pholcus* and closely related taxa (Araneae, Pholcidae). Bonner zool. Monographien 58: 1-510.

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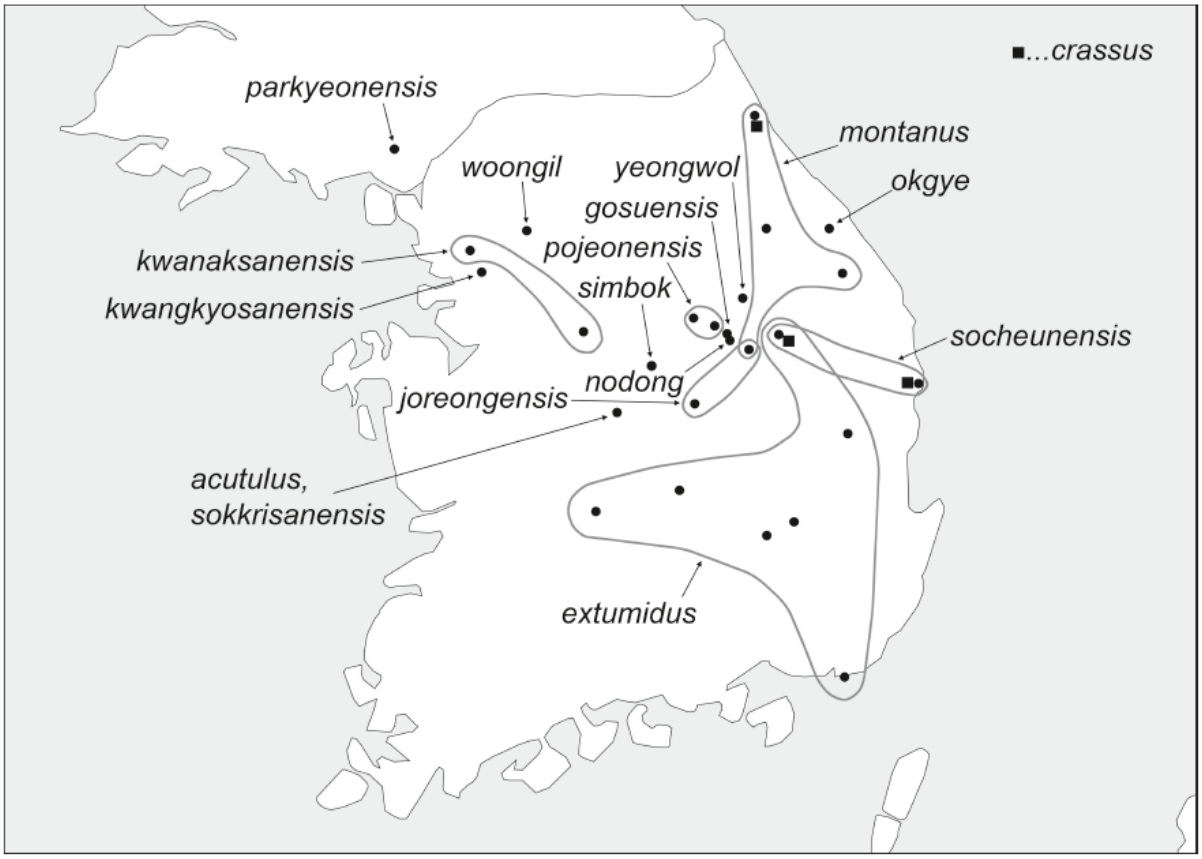

FIG. 2217. Known distribution of Korean representatives of the *Pholcus phungiformes* species group.