

A NEW SPECIES OF GOMPHUS.

JAMES TOUGH.

GOMPHUS CORNUTUS SP. NOV.

Length, ♂, 55-57 mm.; abdomen, 40-42 mm.; hind wing, 32-33 mm.

Yellowish green, with black and brown markings. Face and occiput yellowish green, eyes posteriorly black above, yellowish below, occiput distinctly convex, notched in center

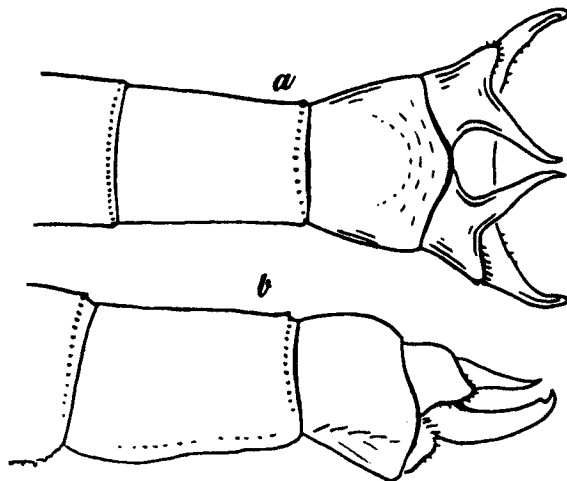


FIG. 1.—Abdominal appendages of male *Gomphus cornutus* sp. nov. (a) dorsal, (b) profile view.

and fringed with black hairs, vertex and antennæ black. Prothorax black, with a geminate spot in center and a patch on each side yellowish. Thorax yellowish green, except a narrow band, indistinct or absent anteriorly, on each side of mid-dorsal carina, also except humeral and ante-humeral bands, and margins of first and second lateral sutures, all of

which are brown. Legs black, front femora yellowish green below. Wings hyaline, with veins black, pterostigma yellowish, and costa yellowish green. Abdomen of uniform thickness, black, a dorsal stripe or spot on segments 1-8, small and basal on 8, and a small quadrangular spot on 10, yellowish; dorsum of ♀ entirely black.

Appendages, ♂, see Figure 1, *a* and *b*. Superiors, dull yellowish; seen from above, internal branches produced inward and backward until they meet, acute and spinose at tip; external branches short, rather broad, and tipped with a blunt spine. Inferior appendage, seen from above, slightly longer than superiors, spreading, the distance from tip to tip of outer extremities being more than twice the width of the tenth abdominal segment at base. From side view the internal branches of superiors are seen to bear a conical tooth about midway between base and apex; the inferior curving upward gradually and each branch bearing a curved spine at tip.

Described from two male specimens, taken at Glen Ellyn, Du Page County, Illinois, one June 14, 1897, the other May 30, 1898, and now in the collections of the writer and Prof. J. S. Hine, of Columbus, Ohio, respectively.

This may possibly be the ♂ of *Gomphus crassus*, Hagen, of which only the ♀ is known.