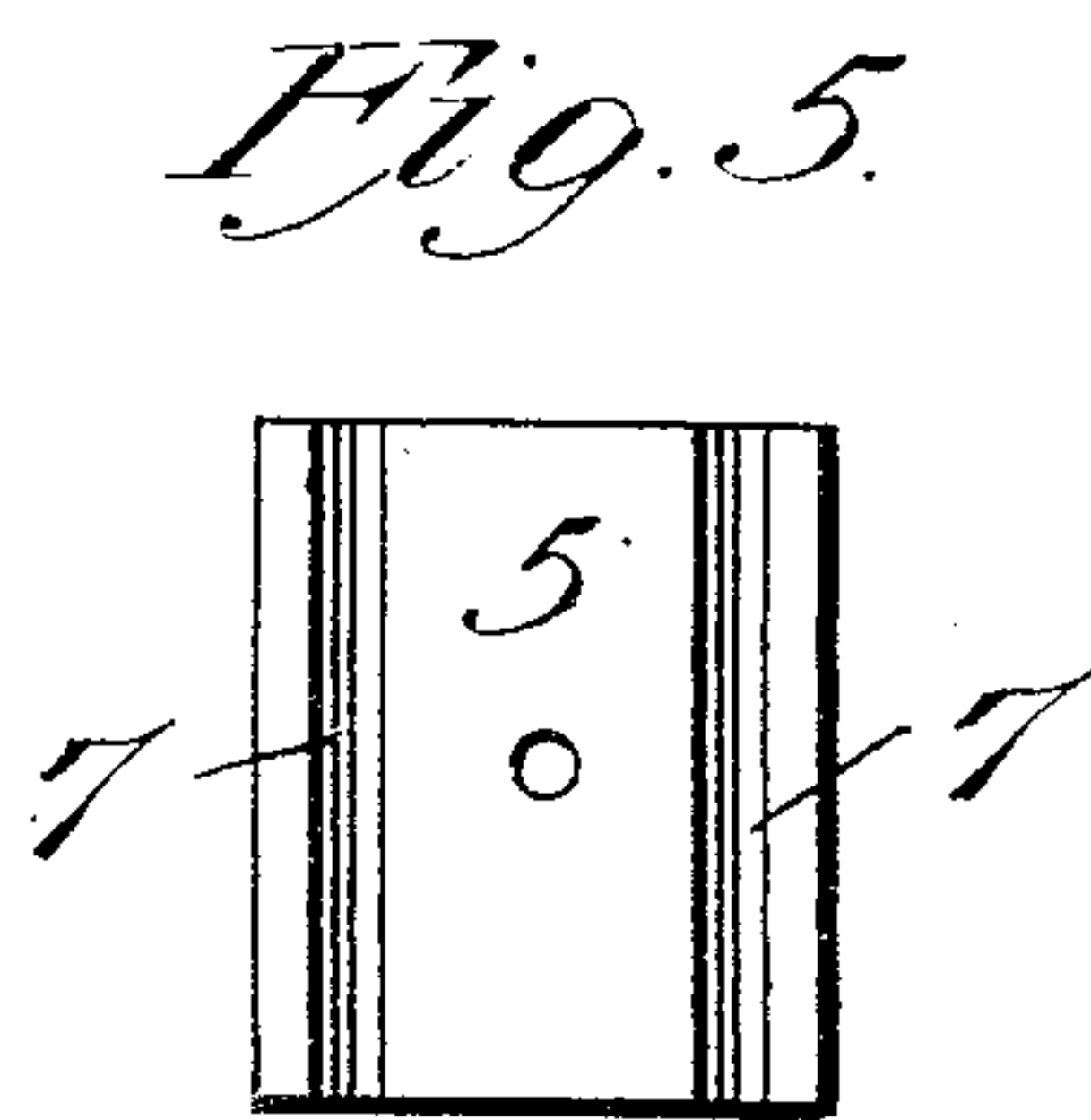
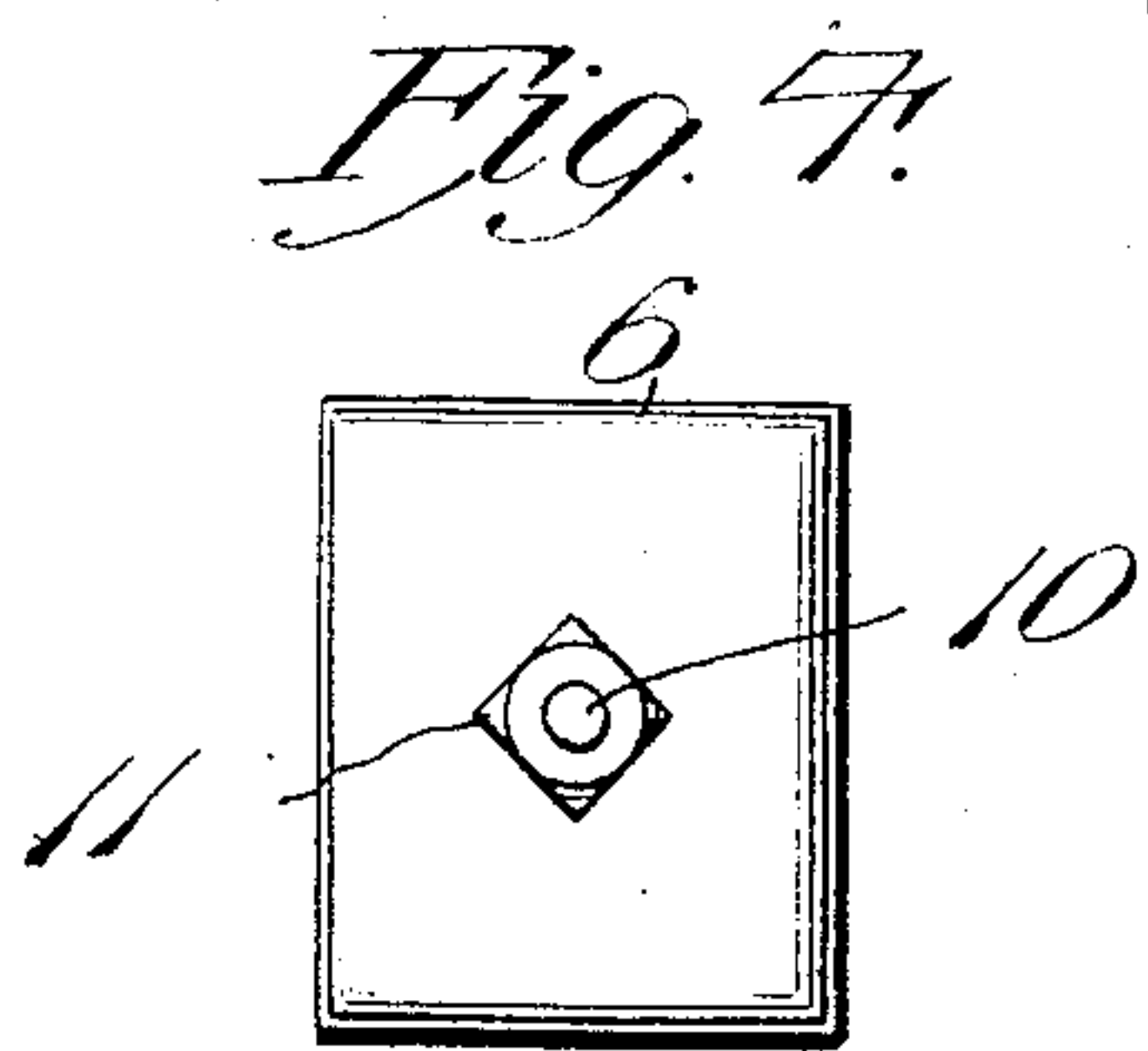
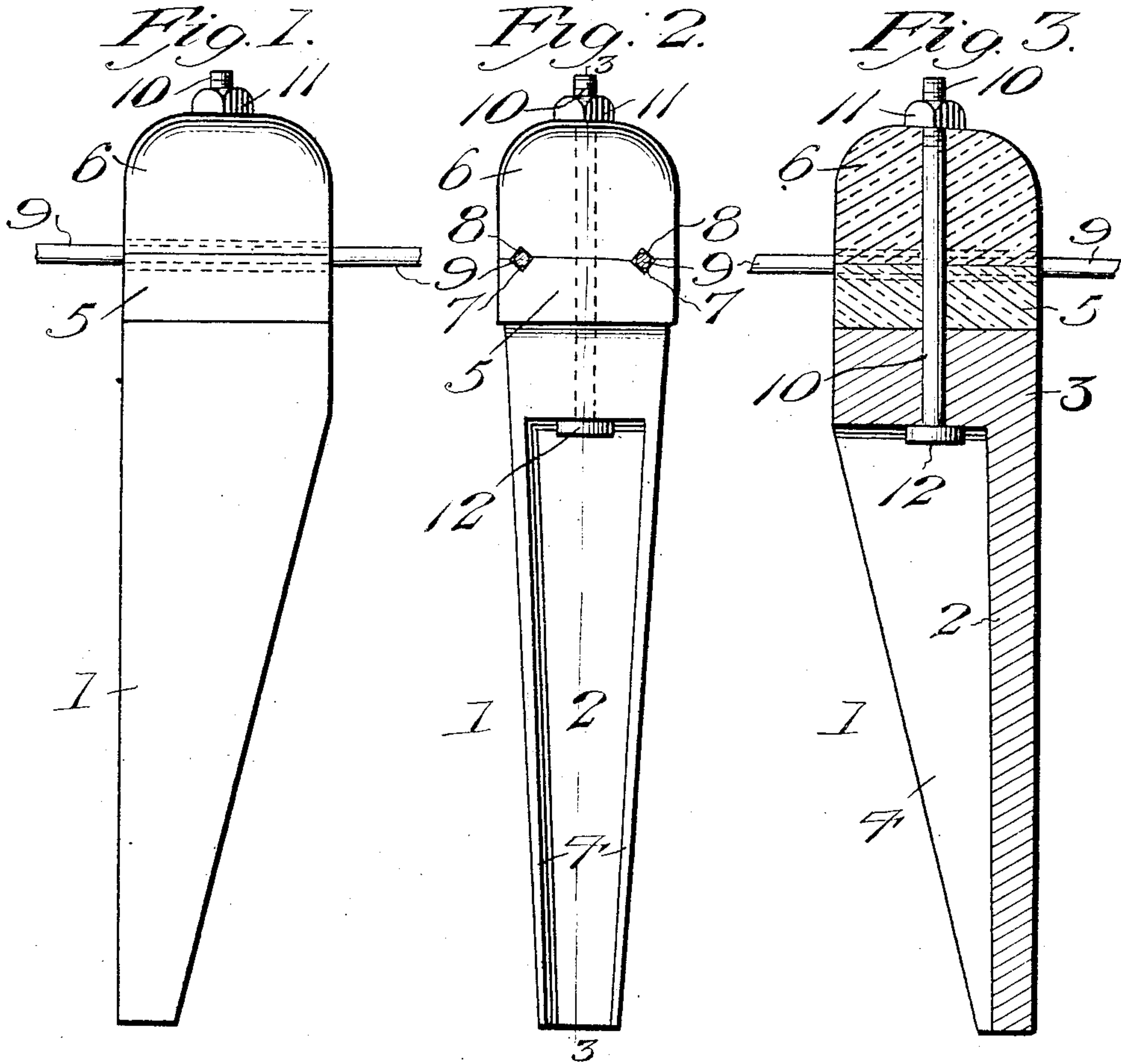


No. 825,795.

PATENTED JULY 10, 1906.

M. F. BAKER.
INSULATOR.

APPLICATION FILED JULY 25, 1905.



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INSULATOR.

No. 825,795.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MELVIN F. BAKER, a citizen of the United States, residing at Lewistown, in the county of Fergus and State of Montana, have invented new and useful Improvements in Insulators, of which the following is a specification.

The invention relates to an improvement in insulators for supporting electric light or power wires and designed to be in turn secured to the usual cross-arm.

The main object of the present invention is the production of an insulator constructed in sections, whereby to accommodate wires of varying gage, the securing means for the sections being housed within the supporting-stem.

The details of structure of the present invention will be clearly described in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 is a view in side elevation of an insulator constructed in accordance with my invention. Fig. 2 is a front elevation of the same. Fig. 3 is a vertical central section of the same. Fig. 4 is a top plan of the same. Fig. 5 is a plan or face view of the base-block of the insulator proper.

Referring to the drawings, it will be noted that my improved insulator is adapted to support two parallel wires, though it is to be understood that it may be readily arranged to receive one or more wires.

In the construction shown my improved insulator comprises a stem 1, preferably of wood or other suitable material, having a rear wall 2 and a head or supporting block 3, arranged at right angles to the rear wall and designed to support the insulator proper. The stem 1 is provided with side walls 4, projecting at right angles from the rear wall 2 and inclining from the edge of said supporting-block 3 toward and practically coincident with the face of the rear wall at the lower end of the stem. The stem described, as will be noted, is practically hollow for the greater portion of its length, having one edge vertical and the opposite edge inclined, providing practically a wedge-shaped stem.

The insulator proper is made in two sections, a lower or base section 5 and an upper or head section 6, both of which are equal in

sectional dimensions to the size of the block 3 of the stem and are preferably constructed of glass, porcelain, or other suitable non-conducting material. The upper face of the base 5 and the lower face of the head 6 are formed with parallel-arranged V-shaped grooves 7 and 8, respectively, designed to register with each other when the sections 60 are in operative position, and thereby provide openings, diamond-shaped in transverse section, to receive wires 9.

The sections of the insulator proper are supported on the stem through the medium 65 of a bolt 10, passed centrally and vertically through the block 3 of the stem and through vertically-alined openings formed in the base 5 and head 6, receiving beyond the head-section a nut 11, by which the parts are secured 70 together. The head 12 of the bolt is designed to rest snugly against the lower face of the stem-block 3 within the plane of the side walls 4, whereby said bolt is effectively protected and yet readily accessible when desired for removal.

Owing to the shape of the wire-receiving openings, it will be apparent that the clamping action of the nut 11 will securely bind the wires within said opening, thereby preventing 80 longitudinal or other movement of the wires.

The insulator may be supported from the usual cross-arm by driving the stem 1 into suitably-formed openings therein, the wedging action insuring the positive retention of 85 the insulator in place.

In the use of the insulator for two parallel wires it will be noted that the securing-bolt 10 is located intermediate said wires, thereby securely binding both by the use of a single 90 bolt. As the insulator-sections are secured to the stem through the medium of a single centrally-arranged bolt, it is obvious that the sections as a whole may be swung on the bolt as a pivot to vary the direction of the supported wires at will without affecting or 95 changing in the least the connection between the stem and cross-arm.

Having thus fully described my invention, what I claim as new, and desire to secure by 100 Letters Patent, is—

1. An insulator comprising a hollow box-like stem, said stem being open on one side and wedge-shaped in longitudinal section, in-

insulating-sections arranged to clamp the wire between them, and a single connection between the stem and insulator-sections, said connection serving as a pivot for the sections.

- 5 2. An insulator comprising a hollow wedge-shaped stem, insulator-sections formed with registering V-shaped recesses to receive a wire, a bolt housed within the stem and ex-

tending vertically and centrally through the sections, and a nut engaging the bolt beyond the sections.

MELVIN F. BAKER.

In presence of—

EDWARD SHOOK,
SAMUEL D. McCOLLUM.