

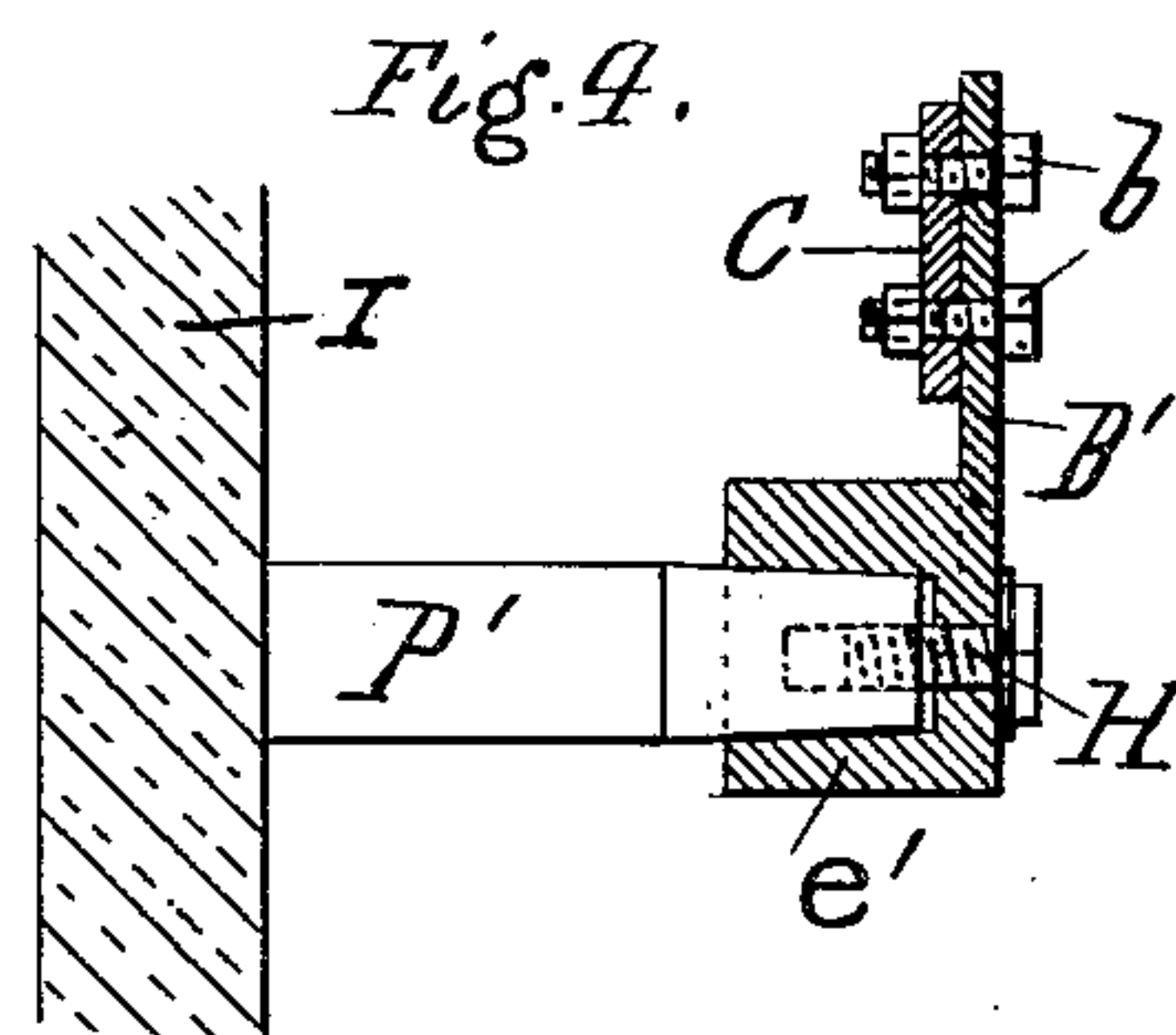
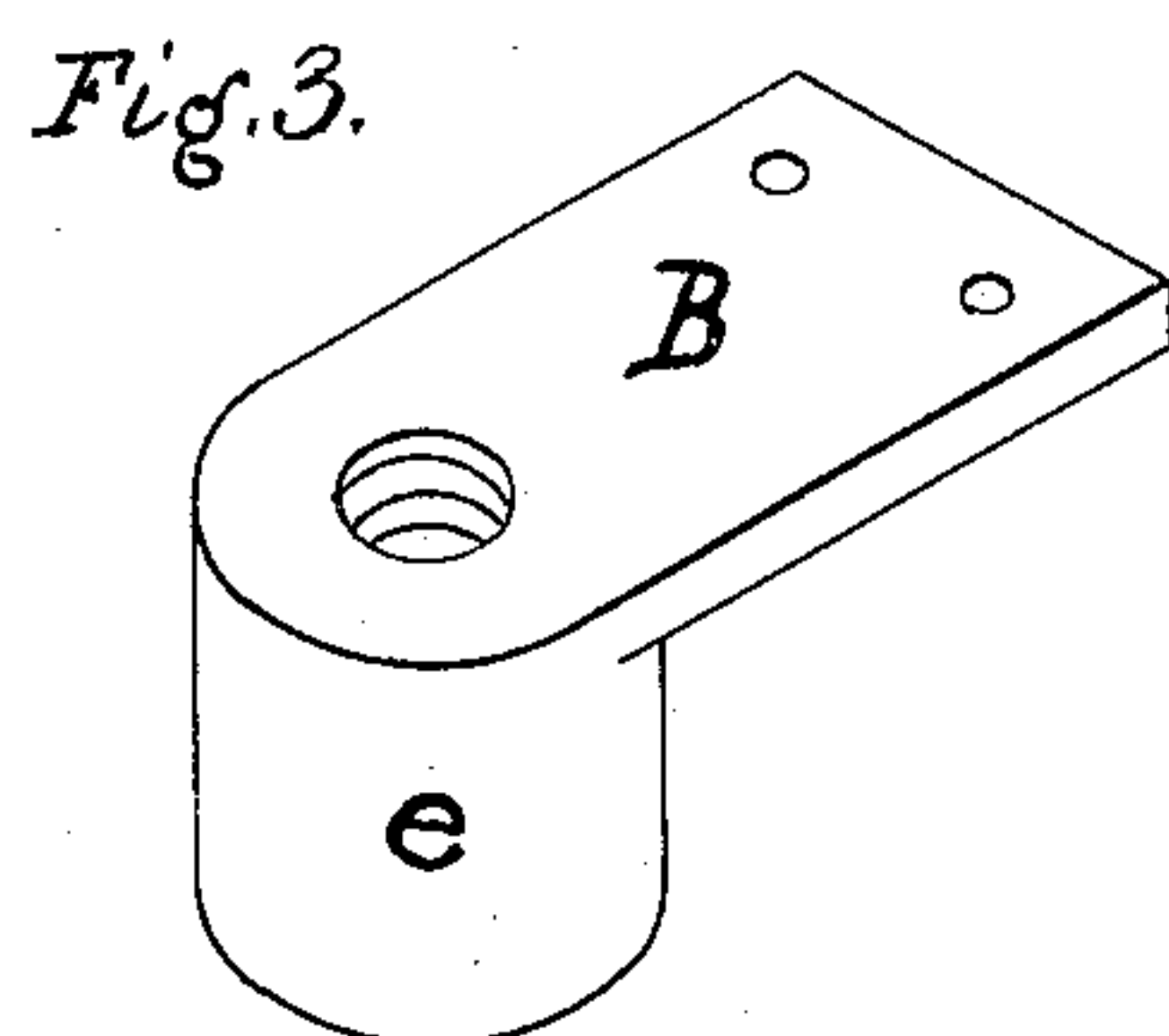
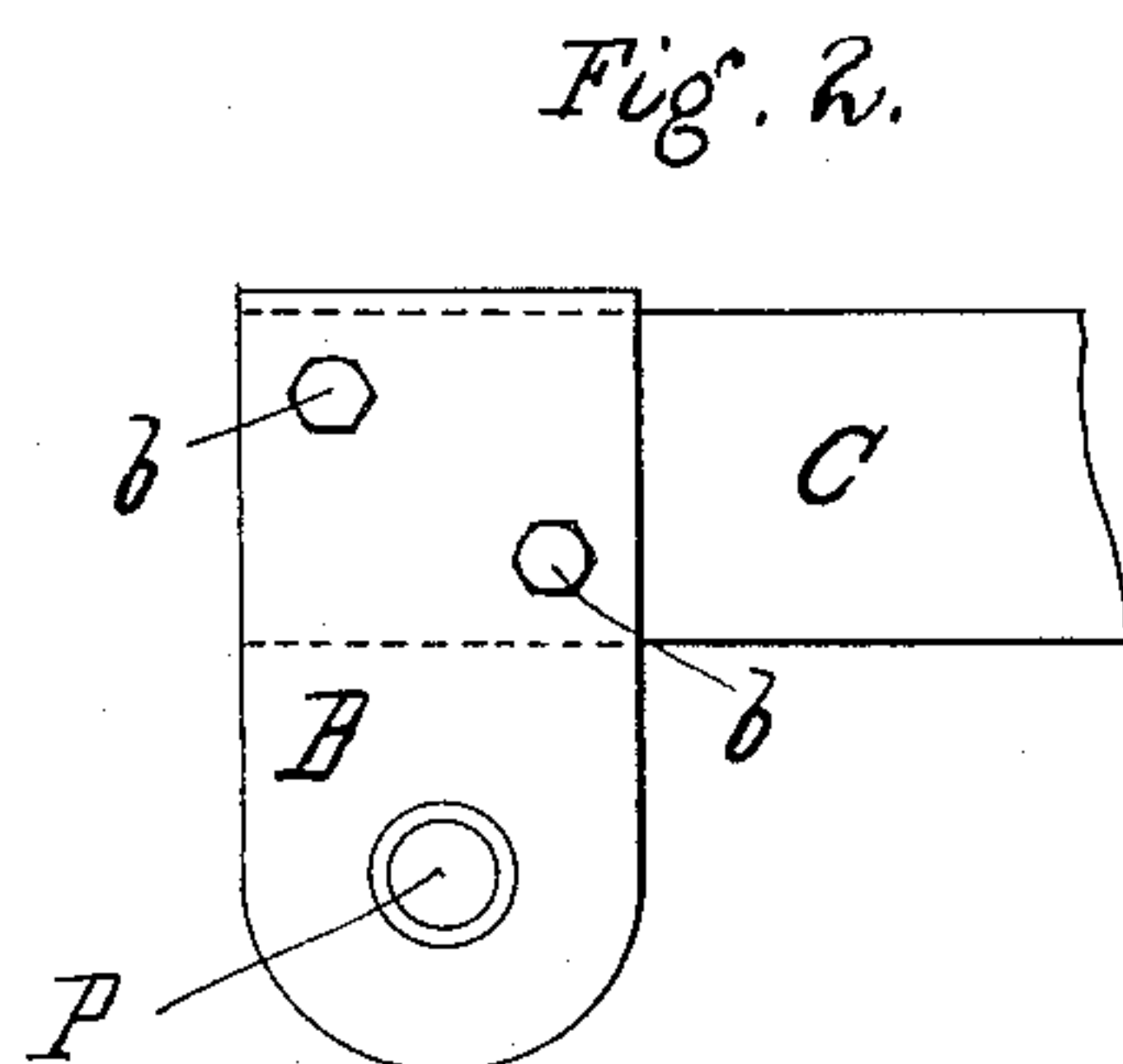
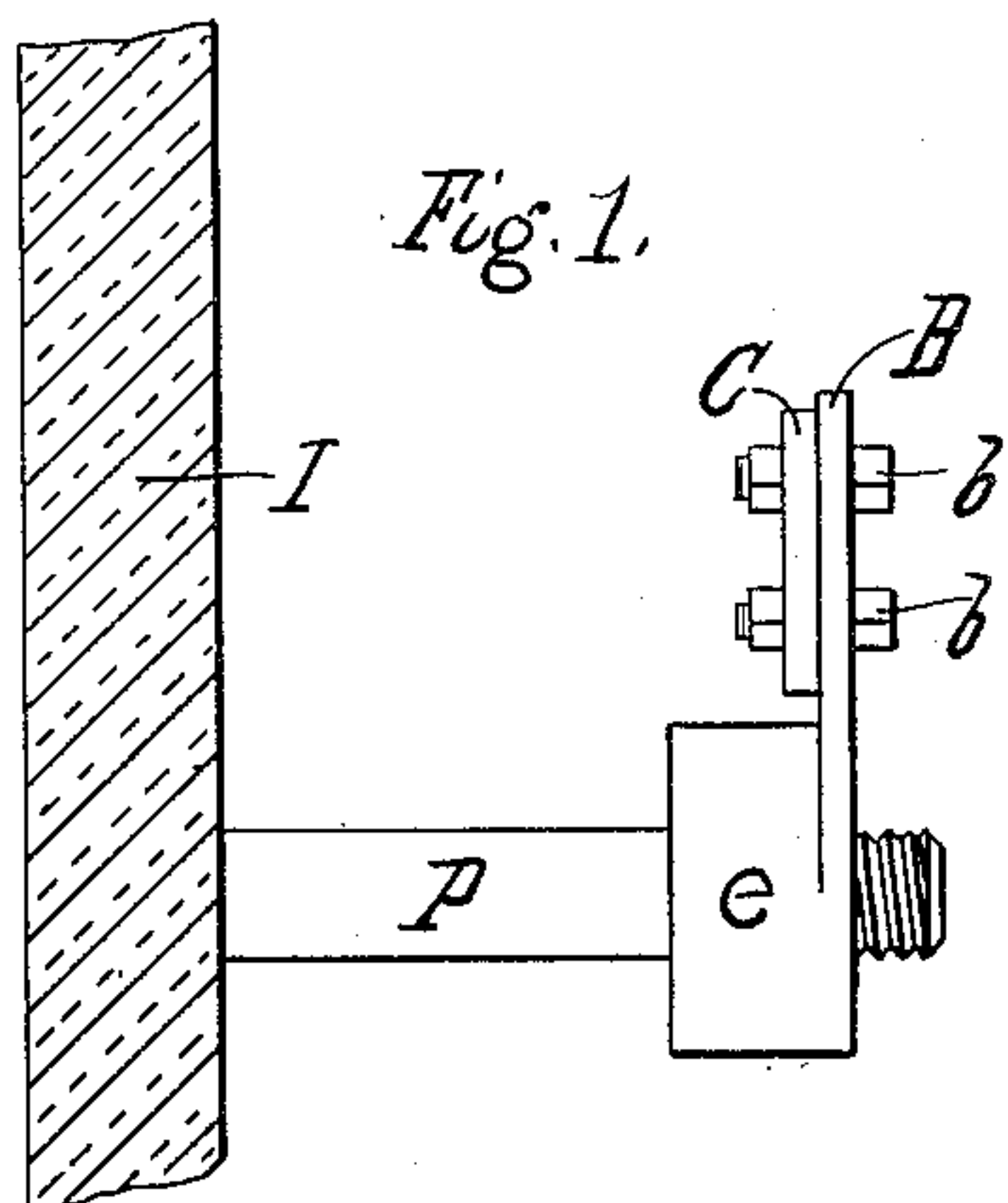
No. 820,211.

PATENTED MAY 8, 1906.

H. KRANTZ.

ELECTRICAL CONNECTION FOR SWITCHBOARDS.

APPLICATION FILED JULY 21, 1903.



WITNESSES

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UNITED STATES PATENT OFFICE.

HUBERT KRANTZ, OF BROOKLYN, NEW YORK.

ELECTRICAL CONNECTION FOR SWITCHBOARDS.

No. 820,211.

Specification of Letters Patent.

Patented May 8, 1906.

Application filed July 21, 1903. Serial No. 166,488.

To all whom it may concern:

Be it known that I, HUBERT KRANTZ, a citizen of the United States of America, residing in the borough of Brooklyn, county of Kings, State of New York, have invented an Electrical Connection for Switchboards, of which the following is a specification.

This invention has for its object to simplify and reduce the number of parts necessary to make electrical connections between the bus-bars, fuse-blocks, &c., of electrical switch or panel boards and the current-carrying posts of such boards. This I accomplish by substituting for the blade riveted to the bus-bar and usually clamped between two washers and nuts on the threaded post an electrical connection comprising a blade having a right-angled extension at one end, said extension fitting tightly the post of said board.

In the accompanying drawings, Figure 1 is a view, partly in section, showing my invention. Fig. 2 is an end view of Fig. 1. Fig. 3 is a perspective view of the integral nut and blade; and Fig. 4 is a view, partly in section, of a modification.

According to my invention, as shown in Figs. 1, 2, and 3, I form integral with the blade B a projecting boss *e*. This boss is internally threaded, forming a nut, as shown in Figs. 1 and 3, and is screwed in place on the post P, the extending blade B being used as a wrench, if desired, until the blade and boss

have sufficiently approached the insulated plate I to cause the blade B to lie close to the bus-bar C in its proper position. I then secure the blade to the bus-bar by rivets or bolts *b b*.

In Fig. 4 I have shown a modification in which the boss *e'* is not threaded, but has a tapered opening. The outer end of the post P' is also tapered to fit thereon. A screw H may be used to draw the two into close and secure electrical connection with each other. The extending blade B' is similar to that before described and is secured to the bus-bar C by bolts *b b*. If desired, the screw H may be dispensed with and the boss *e'* merely forced into place on the tapered end of the post.

I claim as my invention—

In combination with the insulating-plate of a switchboard and the bus-bar therefor, means for supporting the bus-bar comprising a post projecting from the said plate, a bushing forced onto said post, and having an integral blade abutting against and mechanically and electrically secured to said bus-bar for supporting the same.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

HUBERT KRANTZ.

Witnesses:

EL. HOWSON,
J. A. NEWTON.