No. 696,213. Patented Mar. 25, 1902.

G. B. THOMAS.

ELECTRICAL CONNECTOR.

(Application filed Jan. 9, 1902.)

(No Model.)

FIG. 1.

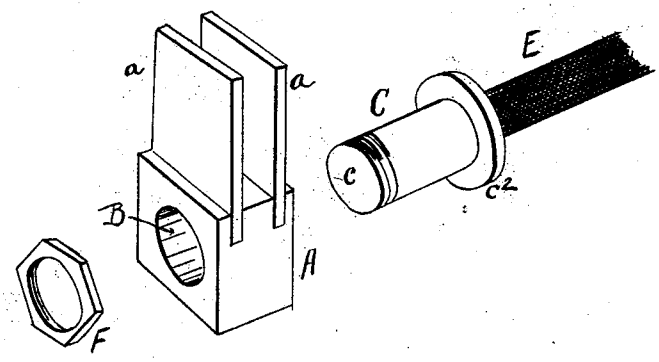


FIG. 2.

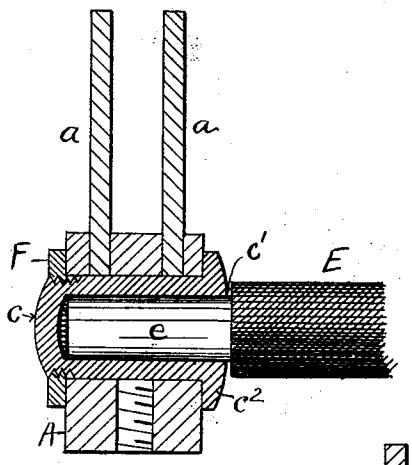


FIG. 3.

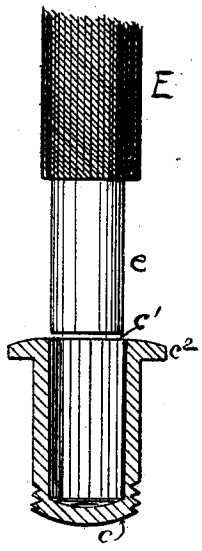
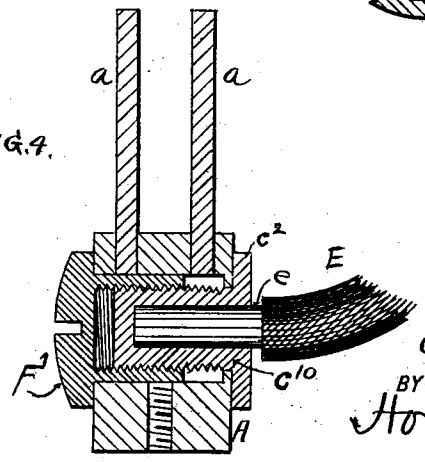


FIG. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE B. THOMAS, OF HARTFORD, CONNECTICUT, ASSIGNOR TO THE PERKINS ELECTRIC SWITCH MANUFACTURING COMPANY, OF HARTFORD, CONNECTICUT, A CORPORATION OF CONNECTICUT.

ELECTRICAL CONNECTOR.

SPECIFICATION forming part of Letters Patent No. 696,213, dated March 25, 1902.

Application filed January 9, 1902. Serial No. 89,012. (No model.)

To all whom it may concern:

Be it known that I, GEORGE B. THOMAS, a citizen of the United States of America, residing in Hartford, in the county of Hartford, State of Connecticut, have invented an Improved Electrical Connector, of which the following is a specification.

In certain kinds of electrical apparatus, and more particularly electrical switches of large capacity, it is desirable to avoid the use of the ordinary set-screw for connecting up conductor-terminals.

It is the object of my present invention to provide a simple and effective connection for conductor-terminals to switch-posts and the like without the use of set-screws.

In the accompanying drawings, Figure 1 is a perspective view illustrating one form of my connector. Fig. 2 is a sectional view of the same. Fig. 3 is a view illustrating the manner of making the connector, and Fig. 4 is a sectional view of a modification.

In these views I have shown my invention as applied to connecting a conductor-terminal to the post of a jack or knife switch; but it will be understood that the connector may be used for various other constructions of electrical appliances.

In Figs. 1 and 2, A represents the metallic block or post of an electrical switch, which is to be mounted on an insulating-base and carries the clips *a a* for the blade of the knife-switch. In this block I bore or otherwise form a transverse opening B to receive a bushing C. This bushing is in the form of a cup—that is, closed at one end *c* and open at the other *c'*, Figs. 1, 2, and 3—so that the bared end *e* of the conductor E may be inserted and soldered, brazed, or otherwise permanently fastened into the cup and made electrically a part of it. At its open end the cup-formed bushing C has a shoulder or flange c^2 to bear against the outer wall of the post A, Fig. 2, and at the other or closed end the bushing is threaded externally to receive a securing-nut F, by means of which the bushing when soldered on the end of the conductor can be drawn up tight in the opening in the post and held there firmly with a good electrical connection.

In Fig. 4 I have shown a slightly-modified form of connector. In this case the cup c^{10} is not long enough to extend through the opening in the post A and is of smaller diameter than the opening. The cup is threaded externally for the reception of the internally-threaded sleeve of a nut F', which fits the opening in the post A and draws and holds the flanged end of the cup c^{10} up to the post, as will be understood.

In both cases the part of the body of the cup which contains the end of the conductor extends into the opening in the block A, with which metal-to-metal contact is made, and the exterior of the cup-body is threaded to receive the securing-nut.

I claim as my invention—

The herein-described connector for conductor-terminals consisting of a metallic block having an opening with a cup-formed bushing, closed at one end and open at the other to have the conductor end permanently fastened in it, the open end having an external shoulder, and the closed end being threaded to receive a securing-nut, the cup-formed bushing extending into the block, with which metallic contact is to be made, all substantially as described.

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

GEORGE B. THOMAS.

Witnesses:
G. W. GOODRIDGE,
W. B. COVIL.