No. 859,278. PATENTED JULY 9, 1907.

G. WRIGHT.

SWITCH CLIP.

APPLICATION FILED JUNE 17, 1905.

Fig. 4.

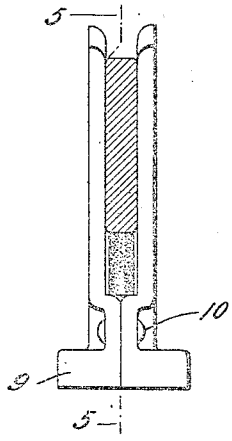


Fig. 5.

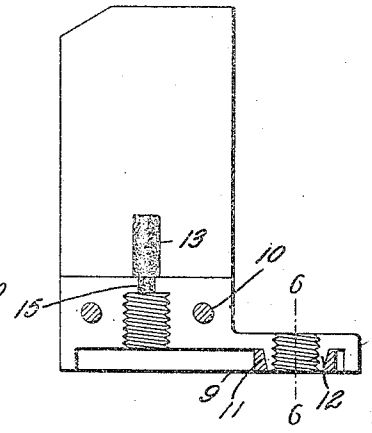


Fig. 6.

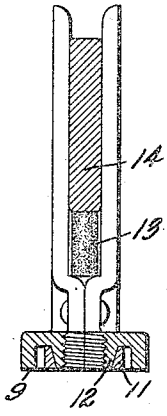


Fig. 1.

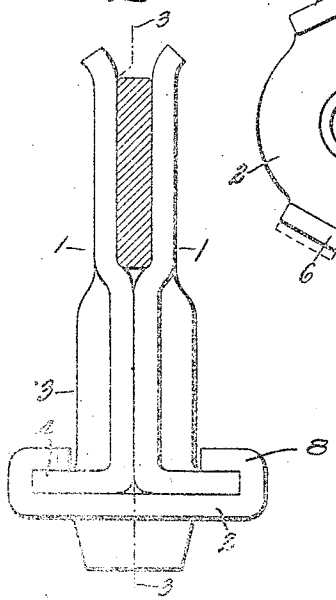


Fig. 2.

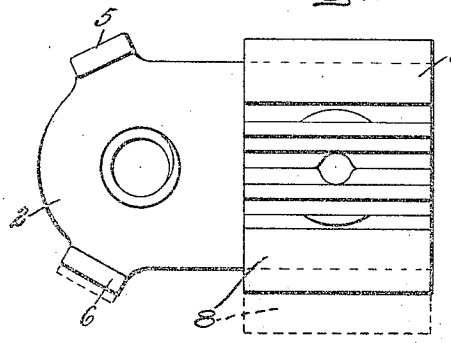
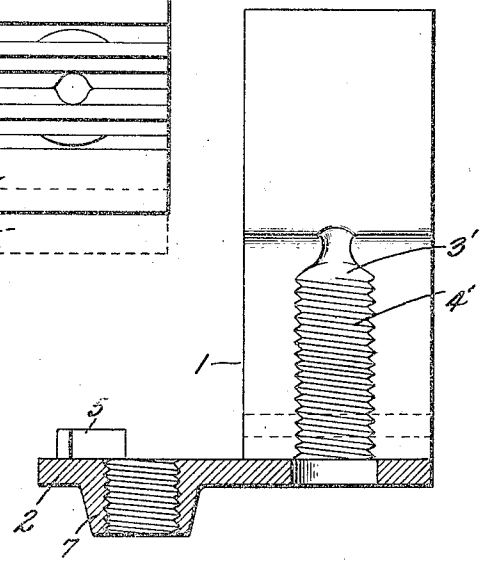


Fig. 3.



WITNESSES:

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GILBERT WRIGHT, OF PITTSFIELD, MASSACHUSETTS, ASSIGNOR TO STANLEY G. F. ELECTRIC MANUFACTURING COMPANY, A CORPORATION OF NEW JERSEY.

SWITCH-CLIP.

No. 859,278. Specification of Letters Patent. Patented July 9, 1907.

Application filed June 17, 1905. Serial No. 265,657.

To all whom it may concern:

Be it known that I, GILBERT WRIGHT, a citizen of the United States, residing at Pittsfield, in the county of Berkshire and State of Massachusetts, have invented certain new and useful Improvements in Switch-Clips, of which the following is a specification.

This invention relates to electric switches and has for its object the provision of a device of this character which is cheap and simple but at the same time, is thoroughly reliable, safe and durable.

My invention has to do more particularly with that part of the switch familiarly known, especially in connection with lever switches, as the switch "clip" and it is the further object of my invention, therefore, to produce a switch-clip of such improved structure that the number of operations required in its construction are reduced to a minimum, the operations requiring no complicated machinery and but a very small amount of hand labor in their performance.

The further objects of my invention and the advantages thereof will be made to appear in the course of the following specification, while the invention itself and the scope thereof will be set forth in the claims annexed to and forming a part of this application.

Referring to the drawings, Figure 1 is an elevation of my improved switch-clip showing the switch-blade in section; Fig. 2 is a plan view of the same; Fig. 3 is a section through the clip taken on line 3 3 of Fig. 1; Fig. 4 shows a modified form of my invention; Fig. 5 is a sectional view taken on line 5 5 of Fig. 4; and Fig. 6 is a sectional view taken on line 6 6 of Fig. 5.

Referring to Figs. 1 to 3, the clip consists of two similar opposed members 1 1 and a foot piece 2 which holds the members together. Each member 1 is stamped from sheet copper into the shape shown, having an offset portion 3 and a flanged end 4. The abutting face of the member also has a depression 3′ stamped therein and provided with a thread 4′ which is formed during the stamping or pressing operation by means of a threaded stud inserted in the die. The base 2 is a separate stamping, having lugs 5 6 turned up from the dotted position, as shown, to retain the fastening for the lead wire or fuse. The hub 7 is punched down during the operation and is afterwards tapped for a binding screw. In assembling this clip, the lugs or projections 8 are turned up over the flanges 4 and when the screw, which is to secure the clip to the base, is inserted through the base and into the threaded hole in the clip, the two members and the base are securely locked and the downward pull of the screw will draw the two clips together.

This form of clip can be made with a very slight amount of waste stock, the clip members being formed of strip copper with no waste whatever, while the amount of stock cut out from the base is very slight. With the exception of the one hole tapped for the lead screw all the operations on the parts are performed in the press and are, therefore, very economical from the labor standpoint.

In Figs. 4 to 6, I have shown a modified form. In this construction the clip members are formed in the same way with offset portions with screw-threaded depression and flanged ends. The foot piece 9, however, is integral with the clip members which are held together by means of rivets 10 and the retaining collar 11, which is placed in the die before punching and the metal forced into it to form the hub 12 for a terminal screw. The collar serves to hold the two halves of the extended foot together and prevents spreading when the screw is inserted. The hole in this hub is tapped after punching. A buffer or stop 13 for the blade 14 is made of a piece of iron, as shown, with the end reduced to form a shoulder which abuts against the shoulder of the clip members. The hole 15 for this stop is formed in each member during the first operation.

What I claim as new and desire to secure by Letters Patent of the United States, is,

1. A switch-clip comprising abutting plates having offset portions and provided with a threaded opening, a portion of which is formed in each plate.

2. A switch-clip composed of abutting plates having offset portions and flanged bases and provided with a threaded opening, a portion of which is formed in each plate.

3. A switch-clip composed of two similar opposing members each formed from a single plate and having an offset portion, and an abutting face provided with a screw-threaded depression.

4. A switch-clip having a threaded opening for a contact screw, said clip comprising abutting plates having offset portions and flanged bases, and a retaining member engaging said bases to hold them together, a portion of said threaded opening being formed in each plate.

5. A switch-clip comprising abutting plates each having an offset portion and a flanged end, and a terminal supporting foot piece having portions engaging said flanged ends and bent to hold said plates together.

6. A switch-clip having an opening for a contact terminal, said clip comprising similar abutting plates each having a flanged base and a depression in the abutting face to form said opening, and a foot piece engaging said flanged ends to hold them together.

7. A switch-clip comprising two similar abutting members, each formed from a single plate and having an offset portion, a flanged end and a screw-threaded depression in the abutting face, and a foot piece having portions engaging said flanged ends to hold them together.

In witness whereof, I have hereunto set my hand this 14th day of June, 1905.

GILBERT WRIGHT.

Witnesses:
FREDERICK MURRAY PLATT.
JOHN LISTON.