

A. ROCKOFF.
ELECTRICAL CUT-OUT.

Patented Sept. 4, 1894.

Fig. 4.

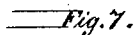
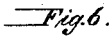
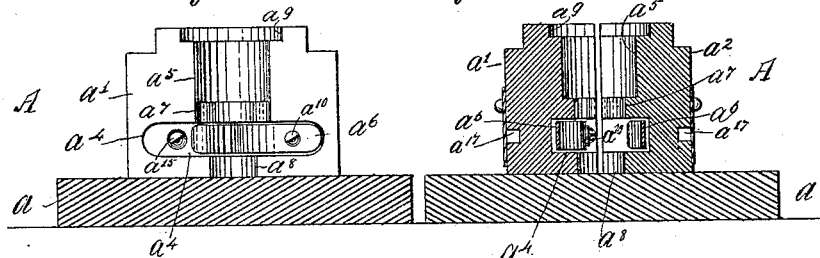


Fig. 8.



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ELECTRICAL CUT-OUT.

SPECIFICATION forming part of Letters Patent No. 525,563, dated September 4, 1894.

Application filed May 10, 1894. Serial No. 510,823. (No model.)

To all whom it may concern:

Be it known that I, AUGUST ROCKOFF, of New York, in the county and State of New York, have invented a certain new and useful Improvement in Electrical Cut-Outs, of which the following is a specification.

My improvement is particularly useful in connection with a portable electric lamp which I have invented.

I will describe a cut-out embodying my improvement and then point out the novel features in the claims.

In the accompanying drawings, Figure 1 is a side view of a cut-out embodying my improvement. Fig. 2 is another side view but in a plane at right angles to the former. Fig. 3 is a side view of one of the parts of the cut-out detached. Fig. 4 is a side view of the part illustrated in Fig. 3, but is taken in a plane at right angles to that of Fig. 3. Fig. 5 is an end view of one part of the cut-out. Fig. 6 is a horizontal section at the plane of the dotted line 6, 6, Fig. 1, of a complete cut-out. Fig. 7 is a partial side view and partial inside face view and partial section of one part of the cut-out. Fig. 8 is a longitudinal section of the cut-out, at the plane of the dotted line 8, 8, Fig. 6.

Similar letters of reference designate corresponding parts in all the figures.

A designates a cut-out, which may be made of any suitable material. Soapstone will be found to be a good material. As shown, it is made in three parts, one of which is a base block a , and the two others of which are socket pieces a' , a'' . The latter may be secured to the former by means of screw bolts a^3 . The two socket pieces are counterparts of each other. Externally they may be made of any desirable form. Internally they have semi-cylindrical sockets a^4 , a^5 , which are divided into two compartments, a^4 and a^5 , the lower, a^4 , being of larger diameter than the upper and containing metal springs a^6 . In each socket there is a partition a^7 between its lower and upper compartments. The bottom of the lower compartment a^4 has a semi-cylindrical hole a^8 , and the outer extremity of the upper compartment has a rabbet or groove a^9 . The spring a^6 of the compartment a^4 of each socket a' , a'' , may be secured in place by a screw a^{10} , which passes through to

the exterior and secures in place a metal plate a^{11} . The metal plate a^{11} of each socket piece, is preferably located in an external recess a^{12} . Each socket piece is also provided externally with a similar metal plate a^{13} located in a similar recess a^{14} . A screw a^{15} passing through the socket piece from the inside, to said plate, may be used to secure the latter in place. Between these two recesses a^{12} and a^{14} , a groove a^{16} , is formed externally in each socket piece to receive a fusible metal wire or conductor a^{17} . This wire is intended to be secured to the two metal plates a^{11} and a^{13} , and it may advantageously have hooked ends so as to be readily fastened to the plates by screws a^{18} , and a^{19} . The plate a^{13} is provided with a screw a^{20} for the securing of the line wire. The two line wires of the circuit, therefore, extend to the two plates a^{13} , and the circuit extends thence through the fusible wires to the plates a^{11} , and thence to the springs a^6 .

B designates a connecting piece, consisting of a body b , adapted to fit the sockets in the socket pieces a' , a'' , but constructed in such a way that it may extend beyond the same. Its body has a portion b' , which is adapted to fit snugly across the compartments a^5 of the socket pieces, and adjacent thereto it has a hub b^2 , which is of a size to fit in the rabbets a^9 of the socket pieces. Its lower extremity is adapted to fit in the holes a^8 in the bottom of the lower or inner compartment a^4 . Thus the connecting piece has two bearings in the socket pieces.

B' , B'' , designate two plates attached to opposite sides of that portion of the connecting piece B, which fits within the socket pieces a' , a'' . Each has a flat portion b^3 which fits against the portion b' of the connecting piece, a stem-like portion b^4 , extending beyond such flat portion, and a tooth, or projecting portion, b^5 , at the end of the latter. The tooth-like portions are on diametrically opposite sides of the connecting piece and when the connecting piece is fitted to the socket pieces, are opposite the lower or inner compartment a^4 and the springs a^6 . The partitions a^7 between the lower and upper compartments a^4 , a^5 , are cut away so as to permit of the tooth-like portions b^5 of the plates B' , B'' , to pass through when the connecting piece is suit-

ably turned. After the connecting piece shall have been thus introduced, it is to be turned so as to bring the tooth-like portions b^5 of the plates B' , B^2 , into contact with the springs a^6 . This may be done by a half turn of the connecting piece. Preferably the springs a^6 will be so constructed that the connecting piece cannot be rotated more than a half turn. The circuit will, of course, be continued from the springs a^6 to the plates B' , B^2 . The latter may be secured to the connecting piece by means of screws b^6 , extending through their plate like portions into the portion b' of the connecting piece B. In the outer portion of the connecting piece is a longitudinal cavity b^7 , into which pass two wires comprised in a cable C, which latter may be used for any purpose or may extend to the hand-piece for a portable electric lamp. These wires form a continuation of the circuit. Their ends are bared of insulating material and are passed down through holes in the bottom of the cavity b^7 and are secured to screws b^8 that engage with the plates B' , B^2 .

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A cut-out having a socket comprising two compartments, spring contact pieces in the lower or inner compartment, plates on its exterior, and fusible wire or conductor between said plates, substantially as specified.

2. A cut-out having a socket comprising two compartments, spring contact pieces in the inner compartment, a rabbeted bearing in the outer compartment, plates on its exterior, and fusible wire or conductor between said plates, substantially as specified.

3. A cut-out having a socket comprising two compartments, spring contact pieces in the inner compartment, a rabbeted bearing in the outer compartment, a hole in the bottom of the inner or lower compartment constituting another bearing, plates on its exterior, and fusible wire or conductor between said plates, substantially as specified.

4. The combination with a cut-out having a socket comprising two compartments with a partition between them, and contact pieces in the inner or lower compartment, of a connecting piece having a body of insulating material comprising a portion adapted to fit the outer compartment, and metal plates having tooth-like projections for entering the inner or lower compartment and impinging against the contact pieces, substantially as specified.

5. The combination with a cut-out having a socket comprising two compartments with a partition between them and contact pieces in the inner or lower compartment, of a connecting piece having a body of insulating material comprising a portion adapted to fit the outer compartment, and metal plates having tooth-like projections for entering the inner or lower compartment and impinging against the contact pieces, the cut-out having a fusible wire or conductor on its exterior and in circuit with one of said contact pieces, substantially as specified.

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

AUGUST ROCKOFF.

Witnesses:

WM. A. POLLOCK,
ANTHONY GREF.