

(No Model.)

A. P. SEYMOUR.
ELECTRIC CUT-OUT.

No. 512,331.

Patented Jan. 9, 1894.

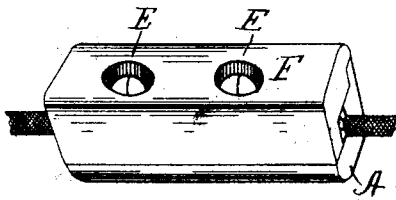


Fig. 2.

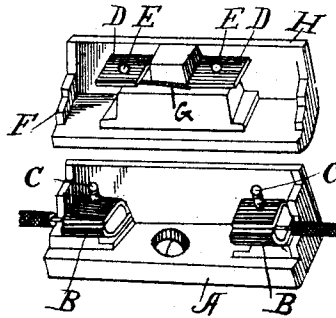


Fig. 1.

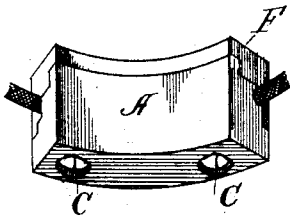


Fig. 3.

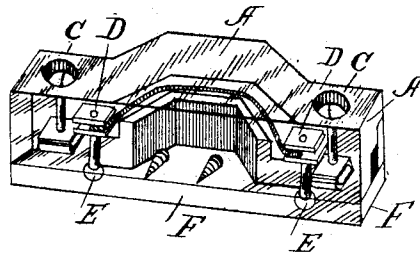


Fig. 4.

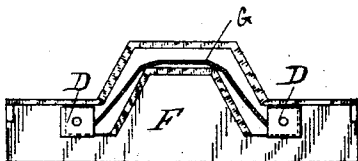


Fig. 5.

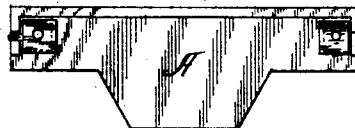


Fig. 6.

WITNESSES:

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UNITED STATES PATENT OFFICE.

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ELECTRIC CUT-OUT.

SPECIFICATION forming part of Letters Patent No. 512,331, dated January 9, 1894.

Application filed November 18, 1892. Serial No. 452,387. (No model.)

To all whom it may concern:

Be it known that I, ALBERT P. SEYMOUR, a citizen of the United States, and a resident of Syracuse, in the county of Onondaga and State of New York, have invented a certain new and useful Electric Cut-Out, of which the following is a specification.

My invention relates to the construction of electric cut-outs in which a fusible wire or strip is employed.

The invention is applicable to fixture cut-outs, line cut-outs or other forms, as will be plain from the subjoined description taken in connection with the accompanying drawings.

The general object of the invention is to provide a cheap and inexpensive cut-out in which little metal work will be required and few fastening or clamping screws employed.

A further object of the invention is to provide complete protection for the fuse and also to obviate the formation and continuance of an electric arc in the device after blowing of the fuse.

Briefly speaking the invention consists in so constructing the line and fuse clamp blocks or plates that they may directly interlock with one another for the purpose of holding the cover and base or other parts supporting the line and fuse clamps, respectively, together, and in providing for the ready attachment of the cover by screws which fasten the metal work of the clamp and at the same time tighten it in interlocking or hooking position, said screws being accessible from the outside of the cut-out, as hereinafter described.

The invention consists further in the special combinations and features, as hereinafter described and then specified in the claims.

In the accompanying drawings:—Figure 1, is a perspective of a straight single pole cut-out embodying my invention, the cover and base being separated and the cover inverted to show the interior construction. Fig. 2, shows the parts as placed together. Fig. 3, illustrates a fixture cut-out containing my invention. Fig. 4, illustrates in perspective a motor cut-out embodying the invention, the base and cover being shown as made of transparent material in order to enable the construction to be readily seen when the cover and base are put together. Figs. 5 and 6, are

plan views of the interior of the two parts of said motor cut-out.

A, indicates the base of porcelain or other suitable insulating material provided, if desired, with a hole through which a screw may pass for fastening it to a suitable base.

B, B, indicate the line clamps. These clamps consist preferably of a pair of clamp jaws secured together by screws C, C, which pass through the base A, so that their heads are accessible from beneath, as better shown in the illustration Fig. 3, of the fixture cut-out. The clamps B, are supported as shown upon suitable offsets or shoulders on the base so that they will overhang and form hooks or projections with which the clamps for the fuse may interlock or engage.

D, D, indicate the fuse clamps which are supported on suitable shoulders or offsets on the cover F, and overhang, or project as shown, so that the cover may be slid sidewise upon the base and the clamps D, D, and B, B, hook or interlock, in obvious fashion, directly upon one another so as to hold the cover from detachment.

G, is the fuse wire.

E, E, are screws for the fuse clamps. These screws pass through, as indicated in the perspective Fig. 2, to the exterior of the device so as to be accessible for tightening or loosening, as desired, in the same way that the screws C, C, may be operated. It is preferable, generally, to employ the screws C, C, as the means for tightening the clamps against one another when hooked or interlocked. It will be seen that whichever screws be used for the purpose, they have the function not only of holding the metal work down and clamping the wire, whether the wire be the line wire or the fuse wire, but further of fastening the base and cover together securely.

In Fig. 1, the metal work which forms the clamp for the fuse is shown as a single plate under which the fuse wire is fastened, but the fuse clamps might be made of two plates, as indicated in Fig. 4, where the fuse clamps and other parts are marked with the same reference letter. The clamp screws engage with the part of the clamp farthest from the seat or surface on which the plates rest, and when tightened serve to clamp the wire between

the jaws as well as to force the clamp itself against the part with which it interlocks, which part may, as shown herein and before described, be the clamp for the line wire. The line wire itself may be held by a similar clamp. The junction line of the cover and base appears at the end of the fuse in this view. The recess or bay is upon the part marked F, the skirt on the part marked A, fitting down over the space formed by such bay.

With the various screws described, it is desirable to employ spring washers under the heads thereof.

To remove the fuse cover in order to renew the fuse it is only necessary to loosen the screws C, or, as will be obvious, the screws E, might be employed in the same way.

As indicated in Fig. 4, the fuse channel or seat is bent between the fuse clamps so as to provide two or more angles around which the fuse wire passes. By this means the continuance of the arc after blowing the fuse may be prevented as it is difficult to maintain an arc around an angle or corner.

To effectually protect the fuse I provide the cover plate F, as shown in Fig. 1, with a skirt or flange H.

What I claim as my invention is—

1. An electric cut-out having interlocking line and fuse clamps mounted respectively upon the base and upon the cover plate with the body of one interlocking or hooking directly upon the body of the other, and a screw passing through the cover and tapped into the metal work of the clamp mounted on the inside of said cover, as and for the purpose described.

2. In an electric cut-out, the combination,

of a base, a cover, clamp metal work interlocking with another part, as described, and a screw passing into said metal and serving the double function of clamping the wire and fastening the base and cover together.

3. In an electric cut-out, the combination of flat line and fuse clamp plates projecting beyond supporting shoulders or offsets on the base and cover respectively, whereby they may be hooked together, and screws tapped into the clamps on the cover from the exterior thereof, as and for the purpose described.

4. The combination with the base and cover in a fuse cut-out, of interlocking clamps, and fastening screws for holding the clamp metal work down upon its seat, said screws being accessible for tightening or loosening from the outside of the cut-out so as to permit them to be used also to tighten the clamps upon one another when interlocked, as and for the purpose described.

5. In a fuse cut-out, the combination of the base, the cover, having an internal projecting part the clamp plate serving as a hook engaging said part to hold the cover and base together, and a tightening screw passing into said plate from the exterior of the cut-out and serving the double purpose of holding the plate on its supporting surface or seat and tightening the clamp plate against the part on which it hooks.

Signed at Syracuse, in the county of Onondaga and State of New York, this 3d day of November, A. D. 1892.

ALBERT P. SEYMOUR.

Witnesses:

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JOHN C. KEEFFE.