E. B. MILLOY.

AUXILIARY FUSE CLIP.

APPLICATION FILED OCT. 14, 1918.

1,325,698. Patented Dec. 23, 1919.

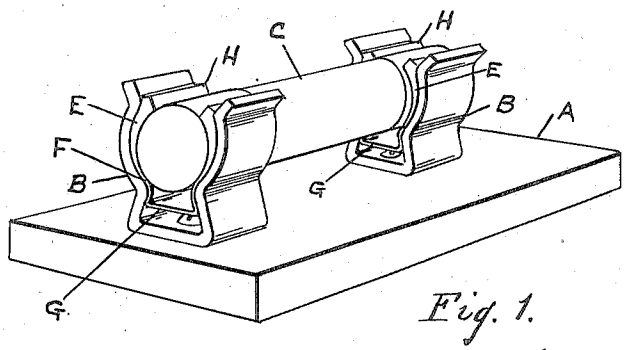


Fig. 1.

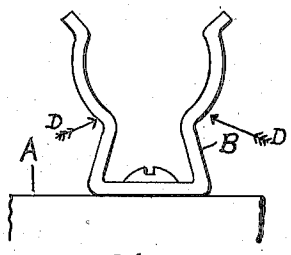


Fig. 2.

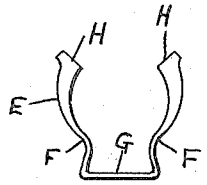


Fig. 3

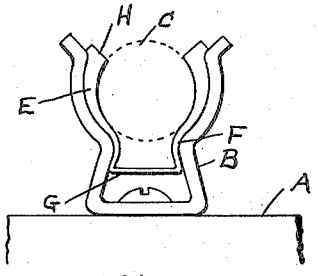


Fig. 4

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AUXILIARY FUSE-CLIP.

1,325,698. Specification of Letters Patent. Patented Dec. 23, 1919.

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To all whom it may concern:

Be it known that I, EDWARD B. MILLOY, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Auxiliary Fuse-Clips, and declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to auxiliary fuse clips, and has for its object an improved device for affording a firmer and more perfect contact between the rounded metal ends of the ordinary commercial fuse and the resilient sides or branches of the clip which engage about them, but which, after more or less use, tend to become bent out of shape so that a very poor contact between them, that is, one involving only a small total area of the surface of each is secured. My improvement takes the form of a supplemental piece, not designed to be attached, as by screws, to the insulating base or wall panel, but fitting within the regular clip, and filling all the space between the fuse end and the interior faces of the arms of the clip.

In the drawings:

Figure 1 is a perspective of my improved attachment in place relatively to the ordinary fuse and fuse clips.

Fig. 2 is an elevational view of the present form of fuse clip.

Fig. 3 is a similar elevation of my auxiliary clip.

Fig. 4 is an elevation showing both clips in place relatively to a fuse.

A represents an insulating plate or base, to which are screwed or otherwise attached a pair of ordinary fuse clips B which engage about the metal ends of a fuse C. Under usual conditions, the tendency of each of the resilient branches or arms of the fuse clips is to become forced farther and farther apart, particularly at their free or outer ends, so that the only point of real contact, in the sense of efficient electrical service, is along a rather thin line near the base or inner end of each branch, near the point shown by the arrows D in Fig. 2. This results in only a small part of the total surface of the metal fuse end, which it is desired that the clips shall be in contact with, being thus engaged by the inner surfaces of the fuse clip arms, and frequent blowing of fuses takes place in consequence.

My auxiliary clip is designed to be slipped in between the metal fuse end and the branches of the clip. Its central portion G serves to unite and hold in desired relative position the two side portions E, which begin at the point F to increase in thickness proportionately to the gap that would otherwise appear between the fuse end and the inner surface of the adjacent clip arm, reaching their greatest thickness at the outer end H. It will thus be seen, from an inspection of Figs. 1 and 4 particularly, that the entire surface of the fuse clip arm and of the metal fuse ends C corresponding to the length of the tapered arm portions of the auxiliary clip are in firm and uniform contact. Thus I secure efficient contact and an even degree thereof throughout the desired extent on each fuse clip branch.

What I claim is:

1. An auxiliary fuse clip, comprising a generally U-shaped member adapted to be inserted between the rounded terminals of a fuse and the resilient branches of a clip, the sides of said U-shaped member being tapered as to thickness to substantially fill up the space between the fuse end and the branches of the holding clip.

2. An auxiliary fuse clip having a generally U-shaped outline, the tapered side portions of which are of greater cross-sectional thickness near their outer ends than their base portions and the central uniting portion of the clip, thereby affording a greater available contact between the main clip wherein they are inserted and the ends of a fuse about which said tapered side portions engage.

3. An auxiliary fuse clip, consisting of a unitary U-shaped member whose side portions are of tapered thickness from one end to the other, thereby serving as a filler for all of the space between the adjacent sides of an inserted fuse end and the resilient branches of a holding clip.

In testimony whereof, I sign this specification in the presence of two witnesses.

EDWARD B. MILLOY.

Witnesses:

WILLIAM M. SWAN,

JEFFERSON G. THURBER.