T. E. MURRAY.

FUSE PLUG.

APPLICATION FILED JUNE 9, 1913.

1,084,706. Patented Jan. 20, 1914.

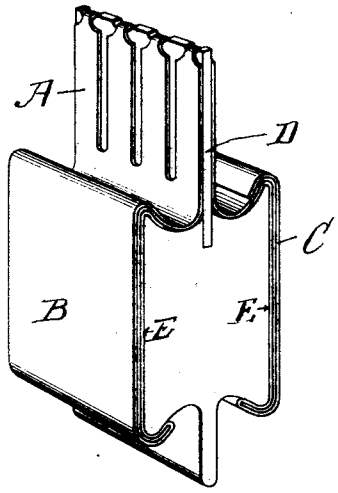


Fig. 1.

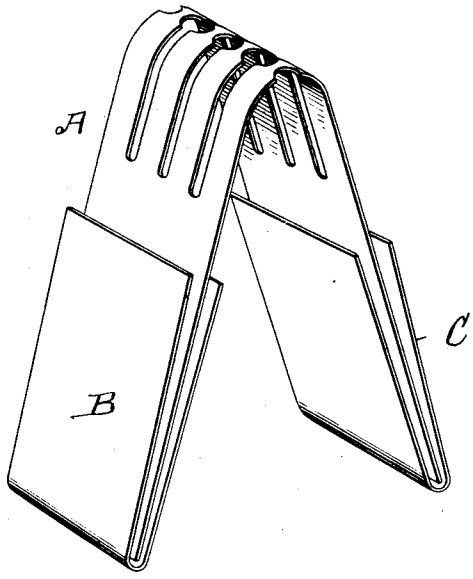


Fig. 2.

Witnesses:
Gertrude I. Porter.
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UNITED STATES PATENT OFFICE.

THOMAS E. MURRAY, OF NEW YORK, N. Y.

FUSE-PLUG.

1,084,706. Specification of Letters Patent. Patented Jan. 20, 1914.

Application filed June 9, 1913. Serial No. 772,530.

To all whom it may concern:

Be it known that I, THOMAS E. MURRAY, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented a certain new and useful Improvement in Fuse-Plugs, of which the following is a specification.

The invention is a fuse plug of the type adapted to enter between pairs of spring contacts in order to close circuit between said contacts.

The invention consists, first, in covering the ends of the fuse strip when in place on the plug with metal contact plates secured to said plug, which contact plates have smooth external surfaces to coöperate with the fixed contacts between which the plug is placed: second, in applying to said strip, preferably in band form, said contact plates, in doubled over or U-shape, so that they cover the end edges of the strip and also portions of its opposite faces adjacent to said ends: third, in securing the covered end portions of the strip to the plug: fourth, in providing a specific way for so securing said covered end portions by bending the same to engage with undercut projections on said plug, thus eliminating fastening pins or like attachments.

In the accompanying drawings—Figure 1 is a perspective view of my device. Fig. 2 shows the mode of application of the doubled over metal plates to the fuse strip, before said parts are applied to the plug.

Similar letters of reference indicate like parts.

A is a fuse strip doubled over in loop form.

B and C are metal strips, preferably of sheet copper, each of which is bent double and applied, as shown in Fig. 2, to the ends of the fuse strip arms so as to cover the end edges of said arms and a portion of the opposite sides of said fuse strip adjacent to said edges.

The fuse plug of insulating material comprises a thin plate D and two projections E having undercut transverse sides, so as to be of dovetail shape in longitudinal cross section. The fuse strip is placed on plate D so that its arms lie in contact with the opposite sides of said plate. The portions of the fuse strip arms which are covered by the copper strips B, C are bent over the dovetail projections E so as to engage with said undercut sides and thus to interlock with said projections therewith, as shown in Fig. 1. In this way, the fuse strip is firmly secured to the plug. The copper covering protects the fuse strip from wear incident to its insertion and removal between the usual holding contacts, and also from injury due to current interruptions when the fuse is withdrawn from said contacts.

I claim:

1. An elongated plug of insulating material, a fuse strip doubled over one end thereof, and metal contact plates having exterior smooth surfaces secured upon opposite sides of said plug and covering the end edges of said fuse strip and portions of said strip adjacent to said edges.

2. A plug of insulating material, a fuse-strip, a U-shaped cover of flexible metal applied to each end of said strip and extending over a portion of said strip, and projections on said plug having undercut sides: the said covered portions of said strip extending over said projections and being secured thereto by being inwardly bent to engage with said undercut sides.

3. A plug of insulating material, a fuse-strip doubled over one end of said plug, a strip of sheet metal doubled over each end of said fuse strip and covering both faces of a portion of said strip adjacent to said end, and means for securing the said covered portions of said strip to opposite faces of said plug.

4. A plug of insulating material, projections on opposite faces of said plug undercut on their transverse sides, a fuse strip doubled over one end of said plug, and a strip of sheet metal doubled over each end of said fuse strip and covering both faces of a portion of said strip adjacent to said end: the said covered portions of said strip extending over said projections and being inwardly bent to engage with said undercut sides.

In testimony whereof I have affixed my signature in presence of two witnesses.

THOMAS E. MURRAY.

Witnesses:

GERTRUDE T. PORTER,

MAY T. MCGARRY.