T. E. MURRAY.

ELECTRIC FUSE PLUG.

APPLICATION FILED DEC. 10, 1917.

1,270,048. Patented June 18, 1918.

Fig: 1.

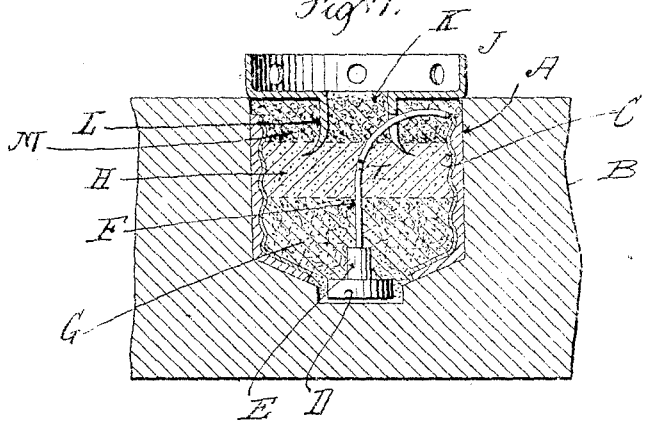
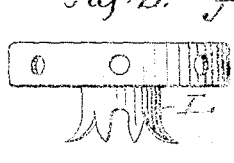


Fig: 2.



INVENTOR

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BY

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UNITED STATES PATENT OFFICE.

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

ELECTRIC FUSE-PLUG.

1,270,048. Specification of Letters Patent. Patented June 18, 1918.

Original application filed December 29, 1916, Serial No. 139,503. Divided and this application filed December 10, 1917. Serial No. 206,401.

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 Electric Fuse-Plugs, of which the following is a specification.

The invention is an electric fuse plug, and consists in the construction more particularly hereinafter set forth.

This application is a division of my pending application Serial No. 139,503, filed December 29, 1916.

In the accompanying drawings—

Figure 1 is a section of my fuse plug seated in a mold, in which it is preferably formed. Fig. 2 is a side view of the metal cap.

Similar letters of reference indicate like parts.

A is a shell of metal, here shown seated in a recess in the forming block B. Said shell is internally threaded to receive a lining shell C. D is a button contact having an upward projection E. F is the fuse strip connected at its ends respectively to the projection E and the shell C.

After the aforesaid parts are placed in the molding block B, I pour into the shell plaster of Paris to form a bottom layer G. After said plaster of Paris has hardened, I insert a layer H of comminuted refractory material, such as dry plaster. Layer H incloses the blowing point of the fuse strip, indicated at I.

J, Fig. 2, is a cap or cover having a central opening K, and a flange L around said opening. Said flange is indented at its edge, and the teeth thus formed are spread outwardly. When the cap is in position, as shown in Fig. 1, the lower ends of the flange enter layer H of comminuted material. Afterward another layer M of insulating material is poured into the shell through the opening in said cap, thus embedding the flange L and holding the cap firmly in position.

I claim:

1. A fuse plug of the type wherein the contacts are respectively a threaded shell and a plate at one end of said plug, and a fuse strip connecting said contacts, a mass of insulating material within said shell, comprising a layer of dense solid material and a layer of dry comminuted material, a cover cap for said shell having a central opening, and a flange around said opening, the body portion of said flange being embedded in said layer of dense solid material, and the end of said flange entering said layer of dry comminuted material.

2. A fuse plug of the type set forth in claim 1, having a blowing point localized in said layer of dry comminuted material and within the areas circumscribed by said flange.

3. A fuse plug of the type set forth in claim 1, there being a plurality of layers of dense solid insulating material and an intervening layer of dry comminuted material, the said fuse strip having its terminals connected to said contacts within the said layers of dense solid material.

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

THOMAS E. MURRAY.

Witnesses:

GERTRUDE T. PORTER,

MAY T. MCGARRY.