

T. E. MURRAY.
ELECTRIC FUSE CASE.
APPLICATION FILED SEPT. 28, 1908.

919,744.

Patented Apr. 27, 1909.

Fig. 1.

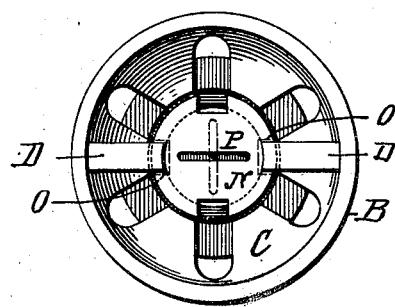


Fig. 2.

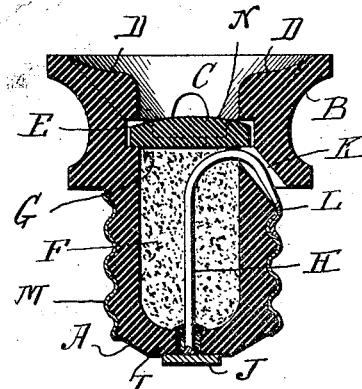


Fig. 3.

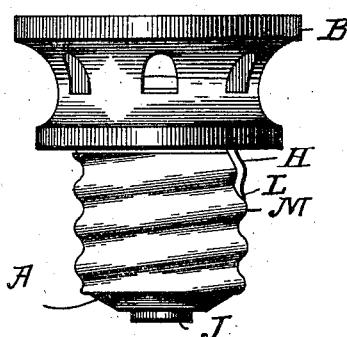


Fig. 4.

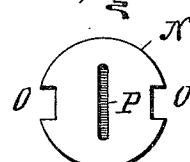
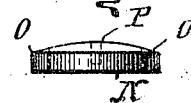


Fig. 5



Witnesses:
C. H. Bertholf
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Thomas E. Murray Inventor
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UNITED STATES PATENT OFFICE.

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

ELECTRIC-FUSE CASE.

No. 919,744.

Specification of Letters Patent. Patented April 27, 1909.

Application filed September 28, 1908. Serial No. 455,082.

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 Cases, of which the following is a specification.

The invention relates to electric fuse cases or plugs, and to the construction whereby the fuse chamber in said plug is seated.

The invention consists in the combination with a tubular fuse case and fuse therein, of a disk-shaped cover constructed to enter the bore of said case, and means for locking said cover in place in said bore all as particularly pointed out in the claims.

In the accompanying drawings—Figure 1 is a top view of my fuse case. Fig. 2 is a longitudinal section. Fig. 3 is a side elevation. Fig. 4 is a plan and Fig. 5 an edge view of the locking cover.

Similar letters of reference indicate like parts.

The case is tubular in form and preferably made of porcelain. It includes integrally a threaded cylindrical portion A and a flanged portion B. The bore in portion B is enlarged and preferably outwardly flared, as shown at C. Inwardly protruding from the walls of the flared bore C are diametrically opposite projections D, D. Below the projections is a cylindrical space E, the diameter of which is greater than the diameter of the fuse receiving chamber F, so that a shoulder G is produced at one end of said chamber, the other end of said chamber being closed. The fuse H is wholly located in said chamber F, and hence, between shoulder G and the closed end of said chamber. One extremity of the fuse passes through an opening I in said closed end and has attached to it the usual contact plate J. The other extremity of the fuse passes through a downwardly inclined passage K in the wall of the case, and is connected at L to the metal contact sleeve M, which incloses the threaded portion A. The fuse is arched or turned downwardly just below the shoulder G, and its receiving chamber F is filled with powdered magnesia, talc, or other incombustible material.

In order to seal the fuse case and prevent access to the fuse, I provide a disk-shaped

cover N, also preferably of porcelain, having two recesses O in its circumferential edge, of sufficient size to receive the projections D, D. On the upper side of the cover is a recess P.

When the cover L is inserted in the enlarged portion C of the bore, the recesses O pass over the projections D, so as to allow said cover to become seated on the shoulder G in the space E, between said projections and said shoulder. The cover is then rotated by insertion of a screw driver or other convenient tool in the recess P, so as to bring its solid portion under the projections D, whereby it becomes securely locked in place, thus sealing and preventing access to the fuse chamber F.

In another application for Letters Patent, Serial No. 426,641, filed April 13, 1908, I have shown and described and claimed cylindrical threaded fuse plugs having at their upper portions recesses or indentations to receive a locking bar, whereby said fuse plugs are prevented from rotation and consequent removal from their seats. The openings shown in the upper flanged portion B of my present device are intended to receive a locking bar in substantially the same way as disclosed in my aforesaid application, so that said locking bar then comes above a disk N.

I claim:

1. The combination of a tubular case closed at one end, a fuse in said case, pulverized noncombustible material in said case and embedding said fuse, a disk of hard noncombustible material constructed to enter and close the bore of said case and bearing upon said pulverized material, and means within said bore for locking said disk therein.

2. The combination of a tubular case of fictile material closed at one end, a fuse in said case; pulverized noncombustible material in said case and embedding said fuse, a disk of fictile material constructed to enter and close the bore of said case and bearing upon said pulverized material, inward projections in said bore, and recesses in the edge of said disk constructed to receive and pass over said projections.

3. The combination of a tubular case closed at one end and having apertures in its wall near its open end, a fuse in said case,

pulverized noncombustible material in said case and embedding said fuse, a disk of hard noncombustible material within and closing the bore of said case below said wall apertures and bearing upon said pulverized material, and means within said bore for locking said disk therein.

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

THOMAS E. MURRAY.

Witnesses:

GERTRUDE T. PORTER,
MAY T. McGARRY.