

T. E. MURRAY.

FUSE PLUG.

APPLICATION FILED JULY 24, 1913.

1,079,948.

Patented Dec. 2, 1913.

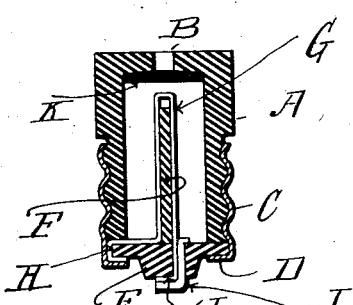


Fig. 1.

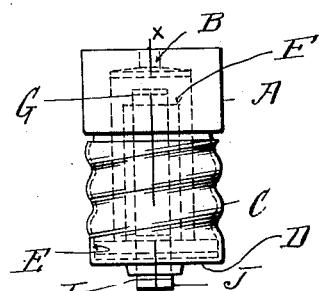


Fig. 2.

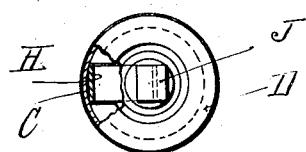


Fig. 3.

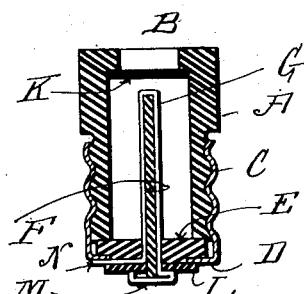


Fig. 4.

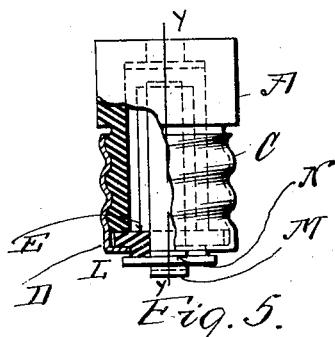


Fig. 5.

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FUSE-PLUG.

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Specification of Letters Patent.

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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 5 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, and consists in the construction, more particularly hereinafter pointed out, whereby the device may be cheaply made of few and easily assembled parts.

In the accompanying drawings Figure 1 is a longitudinal section of my fuse plug on 15 the line x, x of Fig. 2. Fig. 2 is a side elevation. Fig. 3 is a bottom view. Fig. 4 is a longitudinal section of a modified form of my plug on the line y, y of Fig. 5. Fig. 5 is a side elevation of the form shown in Fig. 20 4, a portion being broken away and in section.

Similar letters of reference indicate like parts.

A is the cylindrical casing of insulating 25 material externally threaded and open at one end. In the other and closed end is a central sight-opening B.

C is a threaded metallic shell receiving the threaded portion of casing A, and having 30 an inwardly turned flange D.

E is a disk of insulating material closing the open end of casing A. Within said casing and supported on said disk is a partition F of insulating material.

35 G is a fuse strip doubled at its middle portion over partition F and having one end H doubled over the edge of disk E. The other end I of strip G extends through disk E and is bent over on the outer side thereof.

40 In order to protect the exposed portion of end I, a strip J of copper is inserted in disk E and bent over to cover said exposed portion. Within the casing A and just below the sight-opening B is a disk K of mica.

45 In assembling the parts, the fuse strip G and copper strip J are first put in place, as described, on the disk E, and said disk is seated upon the flange D of shell C. The casing A is then screwed into shell C, thus 50 clamping the end H of the fuse between the flange D and disk E and between disk E and casing A.

In the modified form shown in Figs. 4 and 55 5, the partition F extends through the disk E, and carries outside of said disk a washer L of insulating material. One end of the

fuse strip G extends through the disk E and the washer L and is doubled on itself, as shown at M, so as to form a flat contact plate resting against the outer edge of partition F. The other end N of the fuse strip is bent to pass between washer L and disk E. In assembling this form, the fuse strip G is put in place and with its ends projecting outwardly from disk E and parallel to one another. Disk E is then inserted in shell C so as to rest on flange D. Casing A is screwed into shell C, thus clamping disk E in place. End N of strip G being bent over as shown, the washer L is applied. 70 Finally, the end of the fuse strip which passes through disk E and washer L is doubled over outside of the washer to form the contact plate M.

I claim:

1. A fuse plug, comprising a hollow cylindrical threaded casing, a threaded shell receiving said casing and having an inwardly turned flange, a disk of insulating material interposed between the end of said casing and the flange of said shell, a partition entering said casing and supported on said disk, and a fuse strip doubled over said partition and having one end connected to said shell and the other end extending through said disk.

2. A fuse plug, comprising a hollow cylindrical threaded casing, a threaded shell receiving said casing and having an inwardly turned flange, a disk of insulating material interposed between the end of said casing, and the flange of said shell, a partition entering said casing and supported on said disk, and a fuse strip doubled over said partition and having one end doubled over the edge of said disk and in contact with said shell and the other end extending through said disk.

3. A fuse plug, comprising a hollow cylindrical threaded casing, a threaded shell receiving said casing and having an inwardly turned flange, a disk of insulating material interposed between the end of said casing and the flange of said shell, a partition entering said casing and extending through said disk, a fuse strip doubled over said partition and having one end connected to said shell, and an insulating washer on said partition outside of said disk; the remaining end of said fuse strip extending through said disk and washer.

4. A fuse plug, comprising a hollow cylin-

drical threaded casing, a threaded shell receiving said casing and having an inwardly turned flange, a disk of insulating material interposed between the end of said casing 5 and the flange of said shell, a partition entering said casing and extending through said disk, a fuse strip doubled over said partition and having one end connected to said shell, and an insulating washer on said 10 partition outside of said disk; the remaining

end of said fuse strip extending through said disk and washer and being doubled upon itself to form a contact terminal.

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

THOMAS E. MURRAY.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
Washington, D. C."