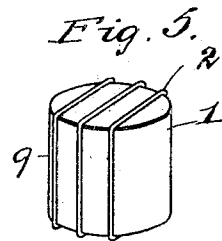
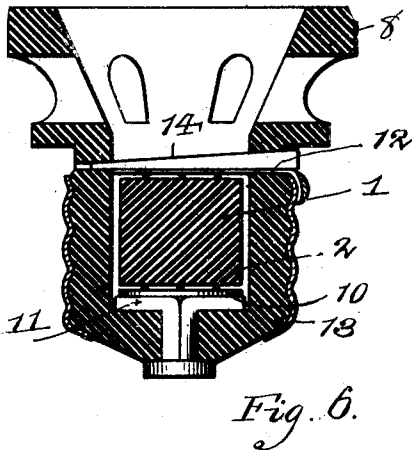
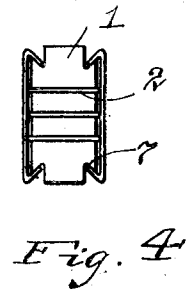
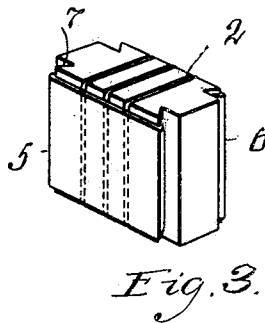
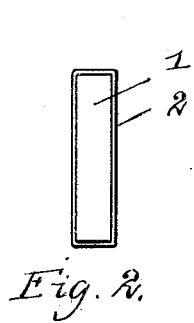
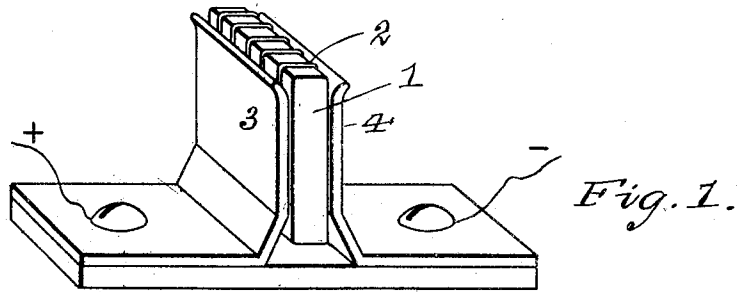


T. E. MURRAY.
ELECTRIC FUSE.
APPLICATION FILED MAY 2, 1912.

1,036,510.

Patented Aug. 20, 1912.



Witnesses:
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UNITED STATES PATENT OFFICE.

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

ELECTRIC FUSE.

1,036,510.

Specification of Letters Patent.

Patented Aug. 20, 1912.

Application filed May 2, 1912. Serial No. 694,629.

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 Fuses, of which the following is a specification.

The invention relates to electric fuses more especially intended for use in high potential circuits.

The invention consists in a continuous fuse wire or strip in coil form wound upon and around a core of refractory insulating material with its turns separated from one another. In order to connect the fuse in circuit, conducting plates are provided which respectively make contact with the portions of the turns on opposite faces of the core.

In the accompanying drawings—Figure 1 is a perspective view showing my fuse in place between fixed contact plates. Fig. 2 is an end elevation. Fig. 3 is a perspective view of a modified form of my fuse, in which the contact plates are secured upon the core. Fig. 4 is a top view of the form shown in Fig. 3. Fig. 5 is a perspective view of another modified form, in which the core is cylindrical, and Fig. 6 is a sectional view of a fuse plug showing the cylindrical core of Fig. 5 in place therein.

Similar numbers of reference indicate like parts.

1 is a core of refractory insulating material, such as porcelain. 2 is a fuse strip, which is wound around and upon said core in a plurality of separated turns. Said strip is secured to the core in any suitable way. In operation, the fuse is inserted between contact plates 3, 4, of conducting material, so that said plates meet the portions of the turns on opposite faces of the core. Said plates may be connected in circuit in any suitable way. The faces of the core may be grooved, as shown in Fig. 3, to receive the strip. Contact plates, as 5, 6, may be secured upon opposite faces of the core in contact with the portions of the fuse strip cross-

ing said faces, as shown in Fig. 3. To this end I may form the core with dovetailed shoulders 7 on two opposite faces and secure said plates in place by bending their edges over the edges of said projections. Where the fuse is to be adapted to the usual cylindrical fuse plug 8, Fig. 6, I wind the strip in parallel turns upon a cylindrical core 9. A contact plate 10 is placed in the bottom of the plug bearing on the terminal 11. The fuse rests upon said plate, with the portions of the strip which extend across the lower face of the core in contact with said plate. Above and in contact with the portions of the strip which extend across the upper face of the core is a contact bar 12, which is connected to the usual spiral shell terminal 13 on the plug. Close contact is effected between bar 12, plate 10 and the fuse strip, by means of a wedge 14 of refractory insulating material entering suitable openings in the plug wall.

I claim:

1. A core of refractory insulating material, a fuse strip wound around and upon said core in a plurality of separated turns, and plates of conducting material in contact with the portions of said turns on opposite faces of said core.

2. A core of refractory insulating material, a fuse strip wound around and upon said core in a plurality of separated turns, and plates of conducting material secured to said core in contact with the portions of said turns on opposite faces of said core.

3. A core of refractory insulating material, having dovetailed projections on two of its opposite faces, a fuse strip wound around and upon said core in a plurality of turns and extending across said projections, and conducting plates on said faces in contact with said fuse strip and engaging said projections.

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

THOMAS E. MURRAY.

Witnesses:

GERTRUDE T. PORTER,
MAY T. MCGARRY.