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CONTACT FOR SCREW PLUG FUSES.
APPLICATION FILED AUG. 2, 1910.

Patented Feb. 25, 1913.

1,054,212.

Fig. 1

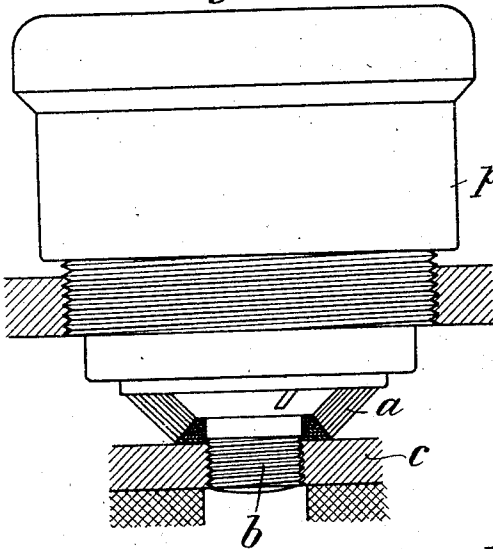


Fig. 3

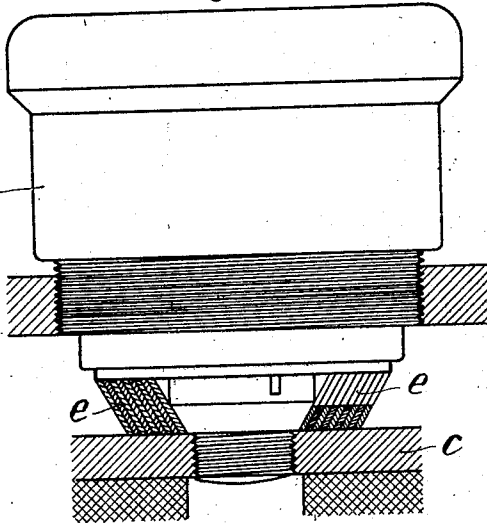


Fig. 2

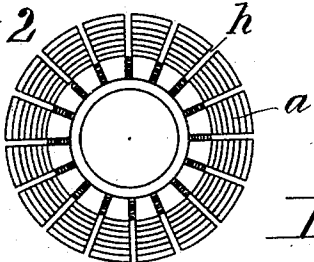


Fig. 4

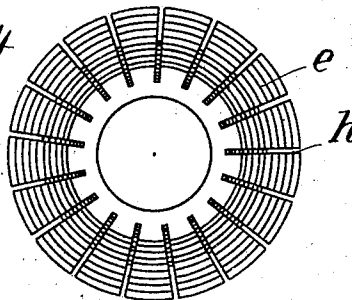


Fig. 5

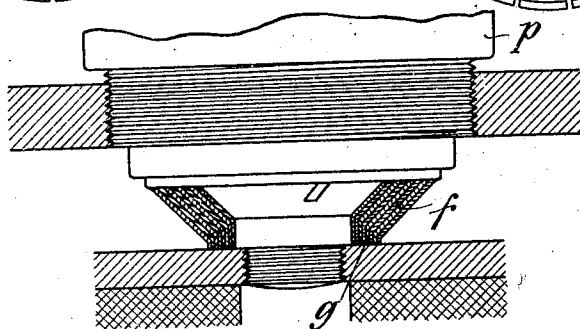
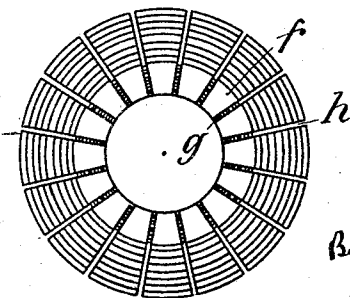


Fig. 6



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UNITED STATES PATENT OFFICE.

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CONTACT FOR SCREW-PLUG FUSES.

1,054,212.

Specification of Letters Patent.

Patented Feb. 25, 1913.

Application filed August 2, 1910. Serial No. 575,175.

To all whom it may concern:

Be it known that we, WILHELM KLEMENT, residing at Neu-Finkenkrug-Falkenhain, and EMIL KOHRS and CARL LEICHTENSCHLAG, residing at Charlottenburg, Germany, subjects of the German Emperor, have invented certain new and useful Improvements in Contacts for Screw-Plug Fuses, of which the following is a specification.

This invention relates generally to screw plug fuses and particularly to those for heavy currents, and a primary object is to provide a good electrical connection between the foot contacts of the fuse which cannot be obtained with the well-known rigid contact surfaces on account of these surfaces being made inexactly.

To this end, our improved foot contact comprises a plurality of annular, concentric, sheet-metal rings which are slit at their edges and as a whole form a contact brush.

Our contact may be arranged as desired on the fuse plug itself or on the contact bar.

Three illustrative embodiments of our invention in the form of foot contacts attached to the contact bar of fuse plugs are represented by way of example in the accompanying drawing, wherein:—

Figures 1 and 2 are elevation, partly in section, and plan view of the foot contact only, respectively, showing a foot contact composed of dish-shaped sheet-metal rings; Figs. 3 and 4 are like views, respectively, showing a modified form of foot contact, and Figs. 5 and 6 are like views, respectively, showing another modified foot contact.

Referring firstly to Figs. 1 and 2, the foot contact here shown comprises a plurality of dish-shaped, concentric, sheet-metal rings *a* secured by means of a screw *b* on the contact bar *c*. The bottom and top faces of the conical edges of the individual rings or dishes *a*, which directly electrically connect the plug *p* and the contact bar *c*, serve for transmitting the current.

Figs. 3 and 4 show a foot contact comprising a plurality of conical, concentric, sheet-metal rings *e*.

Figs. 5 and 6 show a foot contact comprising conical, sheet-metal rings *f* provided with cylindrical lugs *g*. These lugs are for keeping the rings central. The individual

rings are provided with slits *h* in their conical edges for making them elastic. They are arranged, readily revoluble so that when the screw plug is screwed in they can move with it and thereby keep the places of contact clean.

We claim:—

1. A screw plug fuse having a contact face adapted to move at right angles to its plane when the plug is screwed in place, a fixed foot contact comprising a plurality of concentric elastic sheet metal rings forming with their outer ends a straight contact surface parallel to the contact face of said screw plug and adapted to electrically contact with said face when the plug is screwed in place.

2. A screw plug fuse having a contact face adapted to move at right angles to its plane when the plug is screwed in place, a fixed foot contact comprising a plurality of concentric elastic substantially conical sheet metal rings forming with their outer ends a straight contact surface parallel to the contact face of said screw plug and adapted to electrically contact with said face when the plug is screwed in place.

3. In a screw plug fuse, a foot contact comprising a plurality of concentric, elastic, conical sheet-metal rings having cylindrical lugs.

4. A screw plug fuse having a contact face adapted to move at right angles to its plane when the plug is screwed in place, a fixed foot contact comprising a plurality of concentric elastic substantially conical sheet metal rings forming with their outer ends an annular contact surface parallel to the contact face of said screw plug and adapted to electrically contact with said face when the plug is screwed in place, and a screw centrally arranged within said rings for attaching said foot contact to its support.

In testimony whereof we have signed our names to this specification in the presence of two witnesses.

WILHELM KLEMENT.

EMIL KOHRS.

CARL LEICHTENSCHLAG.

Witnesses:

WOLDEMAR HAUPT,

HENRY HASPER.

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