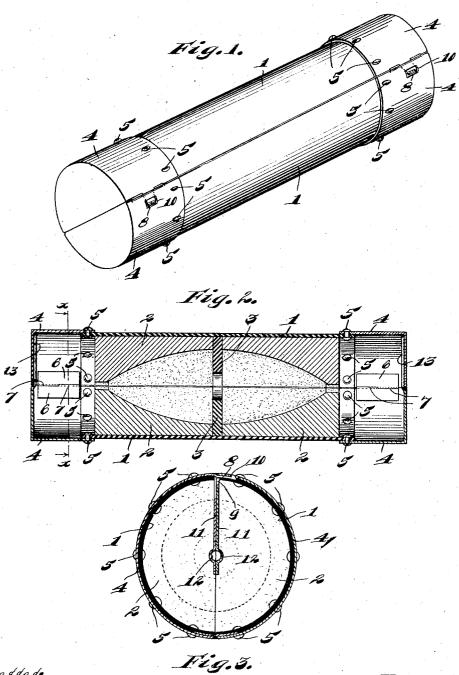
H. W. YOUNG.

ELECTRICAL FUSE HOLDER.
APPLICATION FILED APR. 24, 1912.

1,046,705.

Patented Dec. 10, 1912.

2 SHEETS-SHEET 1.



Witnesses: E.E. Wessels a.a. Olson

Inventor.

Harry W. Young,

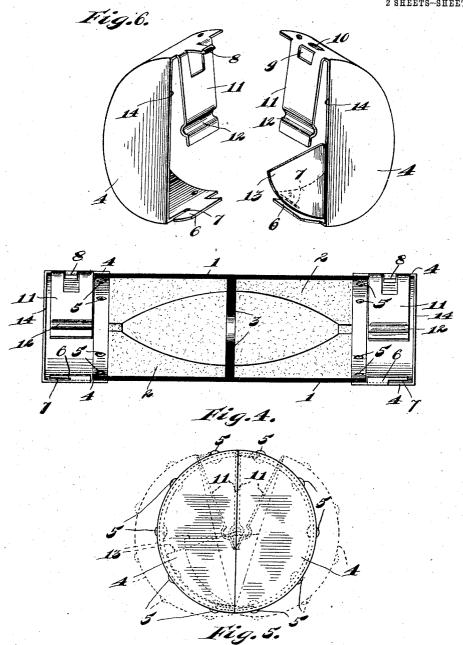
By Joshnor House

his Attorney.

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UNITED STATES PATENT OFFICE.

HARRY W. YOUNG, OF CHICAGO, ILLINOIS:

ELECTRICAL FUSE-HOLDER.

1,046,705.

Patented Dec. 10, 1912 Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HARRY W. Young, a citizen of the United States, and a resident of the city of Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Electrical Fuse-Holders, of which the following is a specification.

My invention relates to improvements in 10 electrical fuse holders and has for its object the production of a device of this character which will be of improved construction and efficient in use.

Other objects will appear hereinafter.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings 20 forming a part of this specification, and in

which, Figure 1 is a perspective view of a fuse holder embodying my invention, Fig. 2 is a central longitudinal section of the holder, 25 Fig. 3 is an enlarged transverse section taken on substantially line x-x of Fig. 2, Fig. 4 is a side elevation of one of the half parts of the holder, exposing the inner side of said part, Fig. 5 is an end elevation of 30 the holder, the same being shown closed in full lines and open in dotted lines, and Fig. 6 is a perspective view of the cooperating cap members provided at each end of the

fuse holder.

The preferred form of construction, as illustrated in the drawings comprises a tubular body which is formed of a suitable insulating material. Said body is cylindrical in form and is constituted of two simi-40 lar half parts 1 each of which is semi-circular in cross section. The parts 1 are lined within with a layer 2 of non-combustible material, asbestos being preferably used in this connection. A transversely extending 45 partition 3 of insulating material is provided within each of the parts 1 midway of the extremities thereof in order to divide the layer 2, the opposite ends of said layer being thus insulated from or electrically in-50 dependent of each other.

Provided at the extremities of the body of the holder are metallic caps, each of which comprises two similar half parts 4 which are secured to the body parts 1 by 55 means of rivets 5, as clearly shown in the several views. Prior to connection of the

cap members 4 to the respective body parts 1, the former are hingedly connected by means of ears 6, which are provided at corresponding edges of the cap members 4, 60 said ears 6 being adapted to be interlocked with each other by reason of slots 7 which are provided at said ears 6, as clearly shown in Fig. 6. After the interlocking of the ears 6 in order to form a hinge connection 65 between the cap members 4 for each end of the body, said cap members are riveted to the body, as shown. When thus secured to the body it will be seen that the parts 1 of the latter will be hingedly connected and so 70 that said parts may be swung to open position when desired for the placing of a fuse in or removing a spent fuse from the interior of said body.

Cooperating cap members 4 and hence the 75 body parts 1 are releasably locked in closed position by means of resilient engaging tongues 8 which are provided at the free edges of one of the members 4 at each end of the body, the tongues 8 being adapted to 80 pass through openings 9 provided in the adjacent sides of the cooperating members 4 and engage slots 10 provided therein, as clearly shown in Figs. 3 and 6. The arrangement is such, as will be observed, that 85 upon swinging of the members 4 to closing position, the ears 8 will automatically engage the openings 10 and thus effect the automatic locking of the holder in position. The engaging extremities of the tongues 8 90 are accessible through the exteriorly opening slots 10 so that the same may be readily engaged by the finger nail or a pointed tool to move said tongues to disengaging position in order to open the holder.

Formed integral with and projecting inwardly from the free edges of the cap members 4 are fingers 11 which are adapted to serve as retainers for the fuse which is arranged in the holder, the inner or free ends 100 of said fingers being provided with grooves 12 which, when the holder is in closed position, are disposed substantially axially of the latter, for embracing the respective extremities of the fuse.

Provided at the inner edge of the end portion or head of one of the members 4 at each end of the body is a leaf extension 13, the upper edge of which is so disposed that when the holder is in open position, said 110 edge will traverse the V-shaped opening which is constituted at each end of the

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holder between the inner edges of the heads or end walls of the cap members, and serve as a means of supporting and centering a fuse arranged in the holder so that proper engagement of the extremities of the fuse by the retaining fingers 11 will be insured. In the event of a fuse being used which is longer than the holder, the edges 14 of the end walls or heads of the cap members 4 will 10 serve as cutting edges and effect the severing of the exteriorly projecting portions of the fuse, when the holder parts are rocked to closing position. The inner edge portions of the partitions 3 as well as the correspond-15 ing edge portions of the layer 2 are recessed, as clearly shown in Figs. 2 and 4 to permit of the passage of the fuse through the holder. The recesses, however, provided at the extremities of the layers 2 are comparatively 20 small so as to just permit of the passage of the fuse therethrough, a chamber thus being formed within the holder which is completely lined or surrounded with non-combustible material. The cap members 4 will 25 be formed of a conducting material, and so that in use the current will be conducted from the fuse through the retaining fingers 11 to said cap members which may be supplied with suitable means for connecting therewith the terminals of the conductor wires of the circuit in which the fuse is in-

With a fuse holder of the construction set forth it will be seen that in the event of the fuse blowing out or becoming disabled, the same may be readily and expeditiously replaced by opening the holder in the manner above set forth. The holder by reason of the layer or lining 2 of non-combustible material is rendered substantially non-archable and hence safe. The device may be manufactured at an exceedingly low cost,

and is highly efficient in use.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification without departing from the spirit of the invention. I, therefore, do not wish to be limited to the

precise details of construction set forth, but 50 desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having described my invention what I claim as new and desire to secure by Let- 55

ters Patent is:

1. A fuse holder comprising a pair of complementary, semi-tubular body members of non-conducting material; a pair of complementary semi-circular caps of conducting 60 material on each end of said pair of body members, each of said caps being secured to one end of one of said body members; coöperating locking catches on each pair of said caps removably securing said caps to- 65 gether; and resilient cooperating inwardly extending fuse holding arms of conducting material in each pair of said caps, each of said arms being provided with a recess in its fuse holding portion; and complementary 70 semi-annular members in the central portion of said body members, each of said semiannular members being secured to one of said body members, substantially as described.

2. A fuse holder comprising a pair of complementary, semi-tubular body members of non-conducting material; a pair of complementary semi-circular caps of conducting material on each end of said pair of body 80 members, each of said caps being secured to one end of one of said body members; cooperating locking catches on each pair of said caps removably securing said caps together; resilient coöperating inwardly extending fuse holding arms of conducting material in each pair of said caps; and ears on certain of said semi-circular cap portions to effect longitudinal registration of said cap portions, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of

two subscribing witnesses.

HARRY W. YOUNG.

Witnesses:
Joshua R. H. Potts,
Arthur A. Olson.