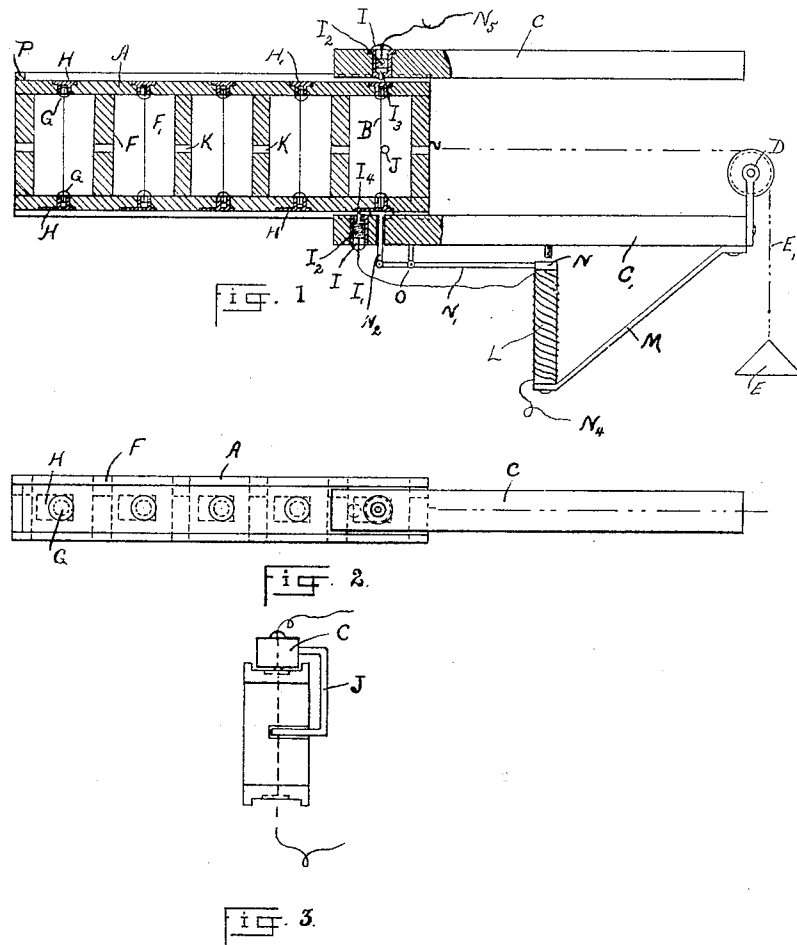


(No Model.)

C. L. ASHLEY.
FUSE BOX.

No. 531,355.

Patented Dec. 25, 1894.



Witnesses,
C. E. Ard.
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By His Attorney,

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UNITED STATES PATENT OFFICE.

CLAUDE L. ASHLEY, OF ATLANTA, GEORGIA.

FUSE-BOX.

SPECIFICATION forming part of Letters Patent No. 531,355, dated December 25, 1894.

Application filed April 30, 1894. Serial No. 509,580. (No model.)

To all whom it may concern:

Be it known that I, CLAUDE L. ASHLEY, a citizen of the United States, residing at Atlanta, in the county of Fulton, State of Georgia, have invented new and useful Improvements in Fuse-Boxes, of which the following is a specification.

The object of my invention is to provide an automatic magazine fuse box. I attain this object by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1, is a vertical section through the center of my fuse case; Fig. 2, a top view of same; and Fig. 3, an end view of box and upper guide, showing slate arc breaker and stop to be described hereinafter.

The porcelain box A is made to slide easily in guides C, C'. At one end of guide C' there is fastened a small sheave pulley D, over which runs a cord E', one end being attached to box A and the other being attached to weight E. The box A contains several compartments F' and in each compartment there is inserted a fuse wire B, and held in place by binding posts G being screwed into copper plates H, H'. Near one end of the guides C, C', there are placed binding posts I, consisting of screw I', spring I² and loose copper piece I³. The object in using posts thus made is to have copper piece I³ always pressed lightly against copper plate H, the pressure being small enough to always allow the box A to slide freely in the guides C, C'. To the guide C there is fastened a small piece of slate J of a thickness somewhat smaller than the thickness of gap K, left in partition P that it may slide through easily. There is a helix or magnet L suspended from the lower guide C', by the rod M. The armature N having a rod N' fastened to it, the rod N' being pivoted at O. On the other end of rod N' is pivoted a T shaped shoe N². N⁴ is the wire from the generator and N⁵ the wire leading to light. These wires are connected to binding posts I as shown.

The whole of this device is inclosed in a porcelain box and screwed to the wall of the building or any convenient place.

The device may be so placed in the box that the weight of box A will cause it to move along the guides C, C' and entirely dispense with weight E.

The operation of my device is as follows: When the wire N⁴, leading from the generator, from any cause becomes overcharged sufficiently to burn out the fuse B the circuit will break, the helix L loses its magnetism and the armature N will no longer hold the shoe N² against the bottom of box A; the weight of shoe N² with its leverage being greater than sufficient to overbalance the armature N with its leverage. As soon as the pressure of the shoe N² is released from the box A, the weight E will draw the box A forward until the copper pieces I³, I⁴ contacts with plate H', H thereby closing the circuit. The instant the circuit is closed the helix will be magnetized and attract the armature N to it, and throw the shoe N² against the bottom of box A holding it firmly in that position. In case the momentum of the box should be sufficient to carry it beyond the points of contact before the shoe N² could act, the fuse B will run against the slate piece J and stop the box A in the correct position. When the fuse burns out the current arcs across and sometimes destroys the fuse box. To prevent this the slate J is placed so as to be between the binding posts which carry the generator and light wire N⁴, N⁵.

If from any cause whatever the box A should fail to act and be carried by the weight E to its last position the stop P would strike on the upper guide C and the last fuse would close the circuit.

The object of the partitions F in the fuse box A is to protect every other fuse from the one through which the current is passing. When all of the fuses have been burned out the box A may be drawn out and refilled.

The box may contain any number of fuses it simply being a question of increasing the length of the fuse box A.

When this device is to be used with an alternating current the helix and armature will not be used but I will depend on the slate J stopping the box when the fuse comes up to it as the box moves forward.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination in a fuse box, of the compartment box A, with the guides C C' the

weight E, the slate piece J, substantially as herein described.

2. In a fuse box, the combination of a box A, a number of fuse wires contained in said box, binding posts to secure the wires in place, the
5 copper contact plate H, the spring copper contact point I³, means for moving the box along the guides C, C', with the guides C, C' and means for stopping the box at the correct position, substantially as herein described.
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3. An automatic magazine fuse box controlled by gravity, said fuse box consisting of

box A containing several compartments each of which contains a binding post G and fuse wire, the contact plate H, the spring contact point I³, the guides C, C', means for moving
15 box A along the guides C, C' and means for stopping the same at the correct position, substantially as herein described.

CLAUDE L. ASHLEY.

Witnesses:

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