

T. E. MURRAY.
SHIELD FOR CIRCUIT WIRE CONNECTIONS.
APPLICATION FILED SEPT. 2, 1908.

925,823.

Patented June 22, 1909.

Fig. 1.

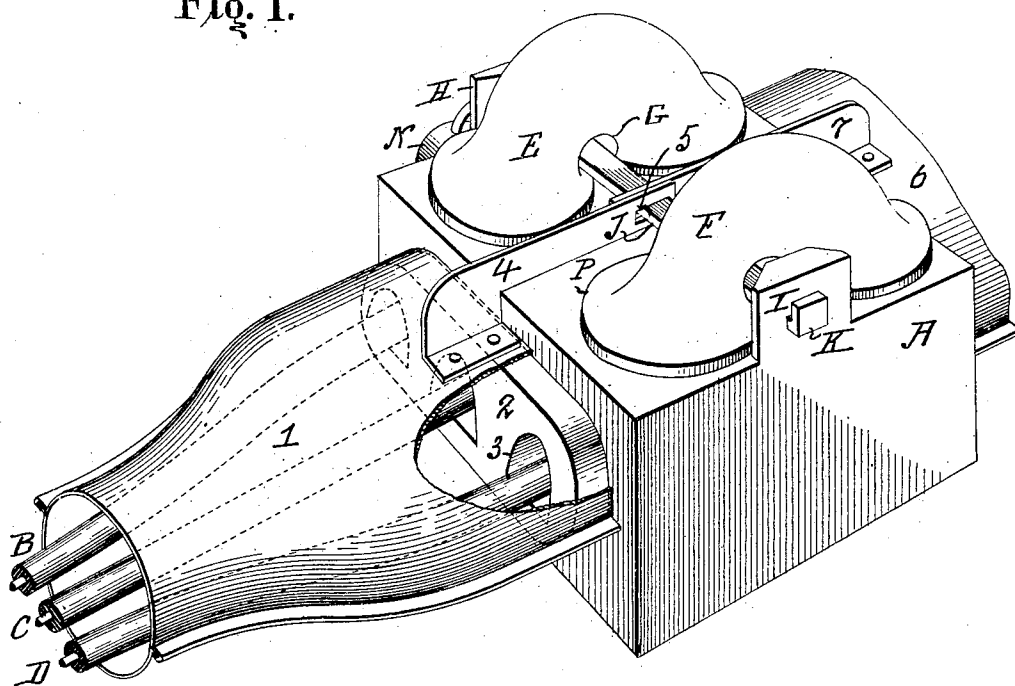
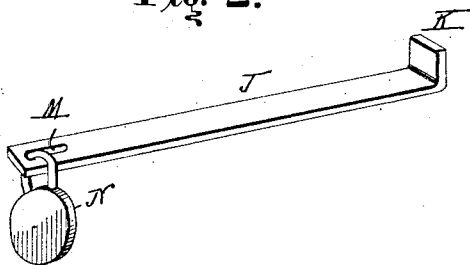


Fig. 2.



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UNITED STATES PATENT OFFICE.

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

SHIELD FOR CIRCUIT-WIRE CONNECTIONS.

No. 925,823.

Specification of Letters Patent.

Patented June 22, 1909

Application filed September 2, 1908. Serial No. 451,439.

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 Shields for Circuit-Wire Connections, of which the following is a specification.

In U. S. Letters Patent No. 905,905, granted to me December 8th, 1908, I have shown and described an electric cut-out and holder which embodies a cut-out or fuse case in loop form having its ends inserted in sockets in a block, wherein are disposed the electrical connections. The inner contour or shape of the fuse case is that of an open eye, and on the block are two upwardly projecting perforated lugs, a rod being inserted through said lugs and said eye, which eye, when the case is in place in the block, comes between said lugs, locks the fuse case in position in its sockets and withdrawal of the rod is prevented by a head on one end, and a seal device on the other end, said head and seal device being outside of the block lugs. In this way, not only is it made impossible to remove the fuse case without first breaking the seal and withdrawing the locking lug, but the insertion of the fuse cases prevents access to the electrical connections in the block.

The object of my present invention is to prevent access to the circuit wires at their place of entry into a block or holder, such as used in the foregoing device, and this I accomplish by means of a detachable tubular shield for said wires, constructed and arranged as hereinafter described and locked in place on the block preferably by means of the same locking device which holds the fuse case in position in sockets in said block.

In the accompanying drawing—Figure 1 is a perspective view of an electric cut-out and holder, substantially as shown in my aforesaid application, with my wire protecting device in place thereon. Fig. 2 shows the locking rod and seal separately.

Similar letters and numbers of reference indicate like parts.

A is a block of porcelain or other insulating material, into which enter the wires B, C, D, of a three wire circuit.

E and F are fuse or cut-out cases, the fuses in which are disposed in circuit in the wires B, C, D. Said cut-outs are in loop form, having ends entering sockets in the block A, and above said ends they are provided with

flanges P which extend over said sockets. The inner shape or contour of the cases E, F, is that of an open eye, as shown at G. On the block A are upwardly projecting lugs H and I having openings, through which openings and also through the eyes G in the cases E, F, is passed the metal rod J. Said rod is bent up or headed at one end, as shown at K, and it is wider than the bottom openings in the eyes G, so that when it is placed in position, as above described, and as shown in Fig. 1, it locks said fuse cases in place and prevents their removal from the block sockets. In order to prevent withdrawal of the rod, an aperture M is made near its end through which, after the rod has been inserted, the shackle of any suitable seal device N is passed.

All of the foregoing construction, together with the electrical connections of the fuse cases and block are fully shown and described in my aforesaid application for Letters Patent.

In order to prevent access to the wires B, C, D, at their places of entrance into the block A, I provide the tubular metal shield 1 having at its end an opening, large enough to surround the wires B, C, D, and to receive a boss or projection 2 formed on the side of the block A, in which projection are the openings 3 through which the circuit wires enter said block. Upon the upper side of the shield is secured a metal arm 4, which, when the shield is in place, extends over the top of block A, and is provided with an opening 5. This opening comes in line with the eyes G in the fuse cases and the apertures in lugs H, I, so that the rod J may be inserted through all. The single rod J thus locks in place upon the block; the tubular shield 1 as well as the fuse cases E, F. On the opposite side of block A, in order to protect the wires B, C, D, a similar shield 6 (shown broken off) may be applied in the same way, the arm 7 then having its opening registering with the opening 5 of arm 4; so that the rod J locks also this shield in place.

I claim:

1. In combination with a block, a tubular projection thereon abutting at its end on said block, a locking device on the exterior of said projection and block and detachably securing said projection to said block, and circuit wires independent of said projection and extending through the same into said block.

2. A block, circuit conductors entering

openings in said block, a removable cut out in said block and in circuit with said conductors, a detachable tubular shield inclosing said conductors for a distance from said block and surrounding said openings and having its inner end in contact with said block, and a device for simultaneously locking said cut out and said shield in place.

3. A block, lugs thereon having openings, circuit conductors entering openings in said block, a detachable tubular shield inclosing said conductors and surrounding said block openings and in contact with said block, an arm on said shield having an opening, and a locking rod passing through the openings in said lugs and said arm.

4. A block having two sockets, a cut-out in loop form having its ends constructed to enter said sockets, circuit conductors entering openings in said block, a detachable tubular shield inclosing said conductors and

surrounding said conductor openings and in contact with said block, and a device for simultaneously locking said cut-out and said shield in place.

5. A block having two sockets, a cut-out in loop form having its ends constructed to enter said sockets, said loop having the shape of an open eye, circuit conductors entering openings in said block, a detachable tubular shield inclosing said conductors and surrounding said conductor openings and in contact with said block, an arm on said shield having an aperture, perforated lugs on said block, and a locking rod passing through said cut-out eye, lugs and arm.

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

THOMAS E. MURRAY.

Witnesses:

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