T. E. MURRAY.

SHIELD FOR CIRCUIT CONDUCTORS.

APPLICATION FILED FEB. 2, 1910.

979,544.

Patented Dec. 27, 1910.

2 SHEETS—SHEET 1.

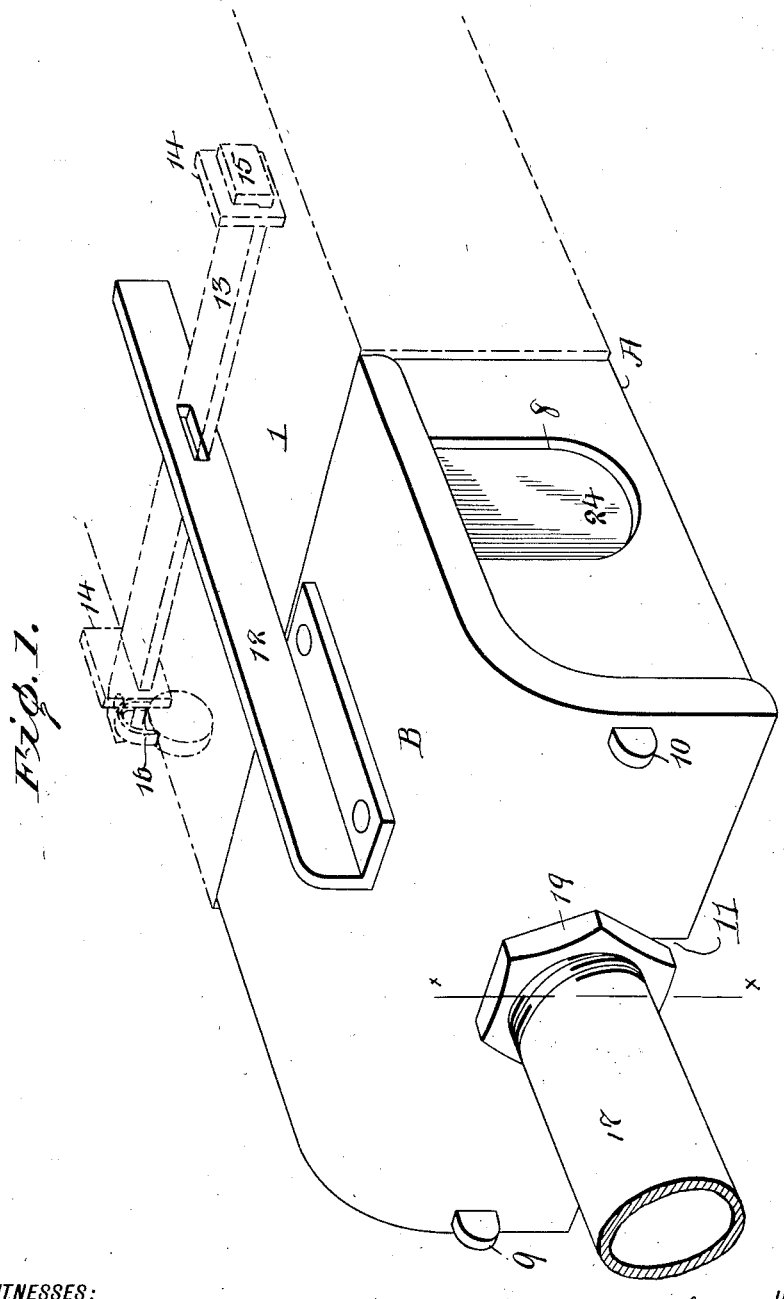

Fig. 1.

WITNESSES:

May J. McGarry

Gertrude T. Porter

INVENTOR

Thomas E. Murray

BY Law Benjamin

his ATTORNEY.

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2 SHEETS—SHEET 2.

Fig. 2.

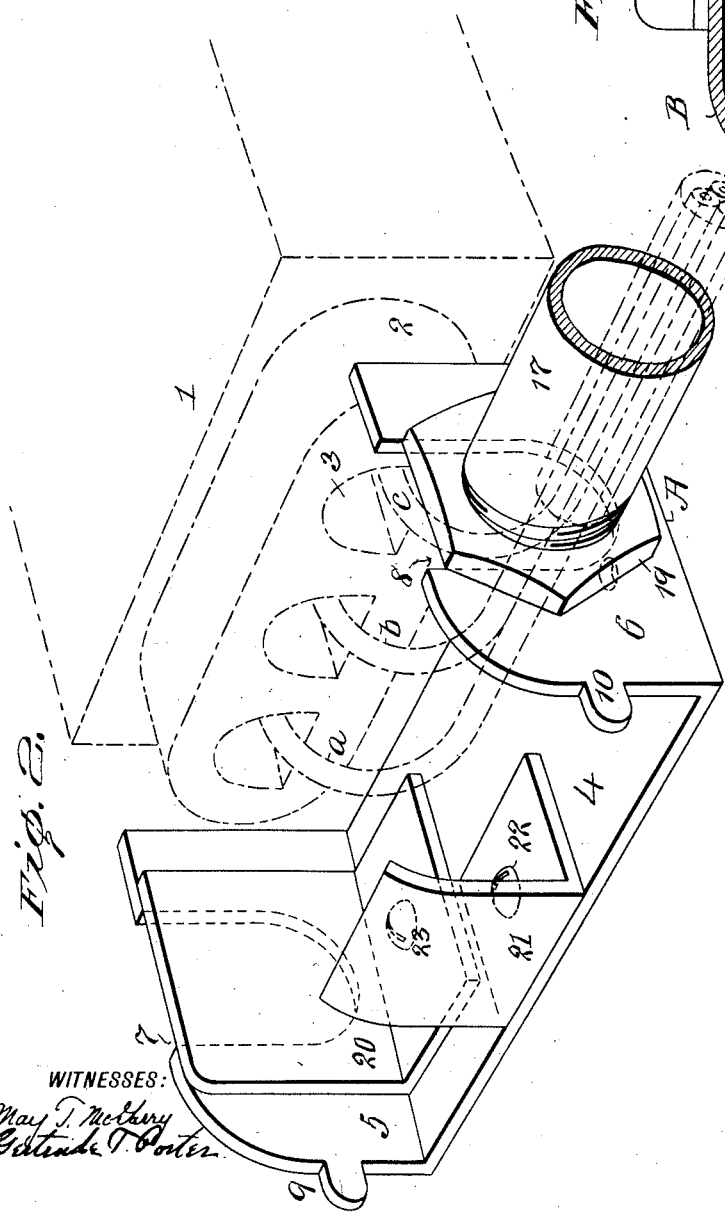
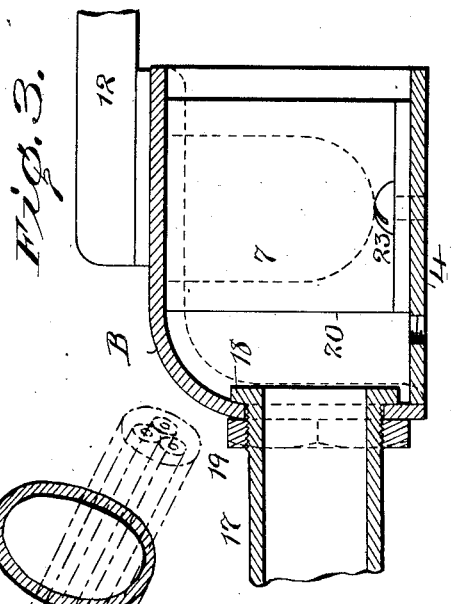


Fig. 3.



WITNESSES:

May T. McHenry

Gertrude T. Porter

INVENTOR

Thomas E. Murray

BY Paul Bryant

his ATTORNEY.

UNITED STATES PATENT OFFICE.

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

SHIELD FOR CIRCUIT-CONDUCTORS.

979,544. Specification of Letters Patent. Patented Dec. 27, 1910.

Application filed February 2, 1910. Serial No. 541,446.

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-Conductors, of which the following is a specification.

The invention is a shield for circuit wires entering a support, and has for its object to prevent access to said wires at their points of entrance. The shield is in box form having a plurality of openings in its walls, into any one of which the pipe inclosing the circuit wires may be secured, and also having means for closing the remaining openings not occupied by said pipe.

In the accompanying drawings—Figure 1 is a perspective view, showing my shield in place on a cut-out box. Fig. 2 is a similar view, showing the cover removed and the base portion of the shield separated from the box. Fig. 3 is a vertical transverse section on the line *x*, *x*, of Fig. 1.

Similar numbers and letters of reference indicate like parts.

At 1, dotted lines, is shown a support which may be a cut-out or junction box, into which the conductors *a*, *b*, *c* of a three wire-cable enter. Said box may be provided with an offset or projection 2 through which are made openings 3 for the entrance of the three conductors *a*, *b*, *c* which unitedly form the cable.

The shield is in box form and is made in two parts, namely, a base portion A and a cover B. The base portion comprises a bottom plate 4 and two end walls 5, 6. In the upper edges of the end walls are recesses 7, 8. The front edges of the walls 5, 6 are preferably rounded. The rear edges are straight so as to bear closely against the box 1 when the shield is in place. The cover B fits upon the front rounded edges of walls 5, 6 and extends over the tops of said walls, and at its rear edge meets box 1. In the cover are openings which receive projections 9, 10 on the front edges of walls 5, 6, and in the front lower edge of said cover is a recess 11. Secured on top of the cover is an arm 12 which extends over box 1 and is secured thereon by any suitable means. I prefer to make an opening near the end of arm 12, and pass through the same a bar 13 which is received in upwardly projecting lugs 14 on opposite sides of box 1. Bar 13 is headed at one end 15 and it has in its opposite end an opening to receive the shackle of a seal device 16. When said seal device is engaged the bar 13 cannot be withdrawn to free arm 12 without first breaking the seal.

The pipe 17 which incloses the three-wire cable *c* has a flange 18 at its end and near said flange is threaded to receive a nut 19. Said pipe may be secured in any one of the recesses 7, 8 or 11, as desired. In applying it to recess 11 the portion of the pipe between flange 18 and nut 19 is inserted in said recess, as shown in Fig. 3, before the cover A is applied to the base portion B, and the nut 19 is then tightened to clamp the pipe in place. The same pipe may in like manner be secured in either recess 7 or 8. In order to prevent access to the interior of the shield through the remaining recesses not occupied by the pipe, I provide within the shield, three detachable closing pieces 20, 21, 24. The piece 21 has its wall curved to conform to the curvature of the cover, and is secured in place by means of a screw 22. The pieces 20 and 24 which are applied to recesses 7, 8 have straight vertical walls and are secured in like manner by screws, as shown at 23.

It will be observed that by the foregoing construction I can connect pipes coming from different directions to the same shield, without altering the position of the cut-out box, or other support, to which the shield may be applied.

I claim:

1. In combination with a support and circuit conductors entering the same, a shield for said conductors in box form having a removable cover and front wall, the said front wall having a recess in its lower edge and the end walls having recesses in their upper edge, a pipe inclosing said conductors, means for securing said pipe in any one of said recesses, and means for closing the remaining recesses.

2. In combination with a support and circuit conductors entering the same, a pipe inclosing said conductors, a shield for said conductors comprising a base portion having a bottom plate and end walls, the said walls having recesses in their upper edges, a cover closing one side and the top of said base portion, the said cover having a recess in its lower front edge, means for securing said shield to said support, means for securing

said pipe in any one of said recesses, and means within said shield for closing the remaining recesses.

3. In combination with a support and circuit conductors entering the same, a shield for said conductors comprising a base portion having a bottom plate and end walls and openings in said walls, a cover closing one side and the top of said base portion, and having its inner edge bearing on said support, means for detachably securing said cover to said support and to said base portion, a pipe inclosing said circuit conductors, and means for securing said pipe in any one of said openings.

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

THOMAS E. MURRAY.

Witnesses:
GERTRUDE T. PORTER,
MAY T. MCGARRY.