T. E. MURRAY.

ADAPTER DEVICE FOR PIPES AND BOXES.

APPLICATION FILED NOV. 1, 1917.

1,270,046. Patented June 18, 1918.

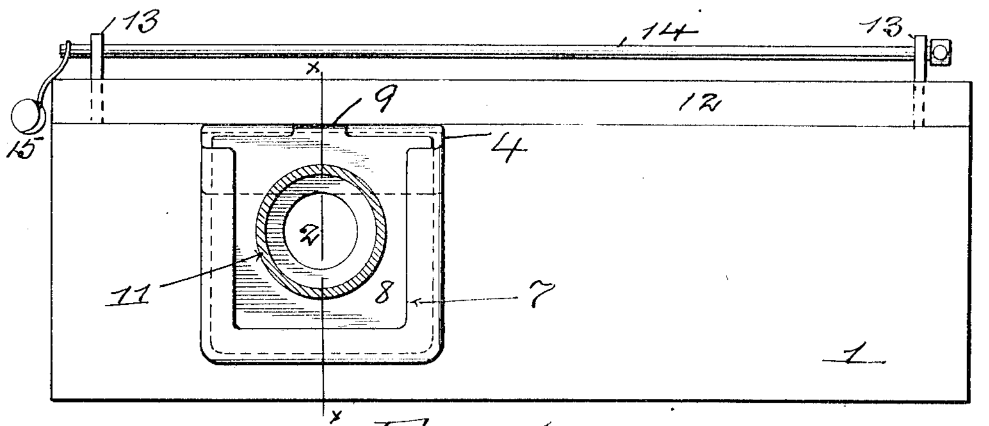

Fig. 1

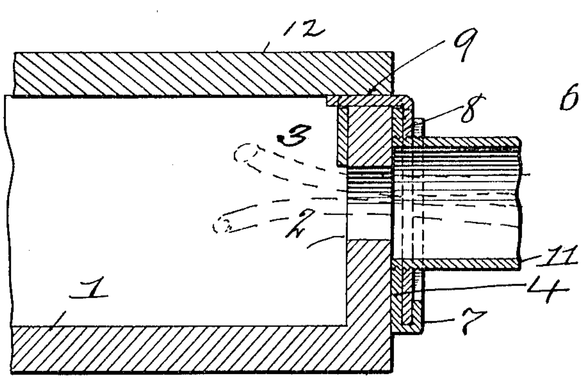

Fig. 2

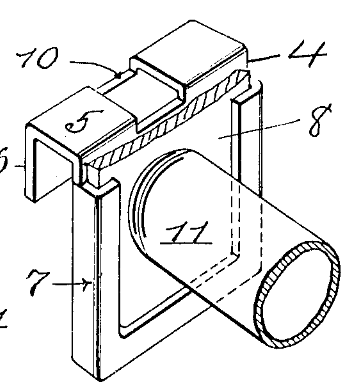

Fig. 3

INVENTOR

Thomas E. Murray

BY Sam'l Benjamin

his ATTORNEY

UNITED STATES PATENT OFFICE.

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

ADAPTER DEVICE FOR PIPES AND BOXES.

1,270,046. Specification of Letters Patent. Patented June 18, 1918.

Application filed November 1, 1917. Serial No. 199,778.

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 Adapter Devices for Pipes and Boxes, of which the following is a specification.

The invention is an adapting device for use in connection with a box having an opening in one wall, to which opening it is desired to apply pipe ends of different diameters, and so avoid the necessity of making a number of openings to suit each size of pipe.

In the accompanying drawings—

Figure 1 is a side elevation of a box, to which my adapting device is shown applied. Fig. 2 is a section of said box and adapting device on the line x, x of Fig. 1. Fig. 3 shows my adapting device separate and in perspective, with a pipe in place thereon, the upper portion of slidable plate 8 being broken away.

Similar numbers of reference indicate like parts.

1 is a box of any suitable material, having in its wall a circular opening 2. When said box is used to inclose electrical apparatus, such, for example, as a switch or a fuse block, the opening 2 serves for the entrance of the circuit leads 3. When said leads are inclosed in a pipe which fits in the opening 2, said leads may be separated, as shown in dotted lines, Fig. 2, to make the connections within the box. But when the leads are inclosed in a pipe of a diameter different from that of the box opening 2, then my hereinafter described adapting device nevertheless provides for the continued use of the same opening, and avoids the necessity of making additional larger or smaller openings, as the case may be, in said box.

4 is a metal plate having its upper edge hooked over; or, in other words, its upper portion is bent at right angles, as shown at 5, and then bent again to form the depending flange 6. To the outer face of plate 4 is secured an undercut frame 7, open at its upper side, so that a flat plate 8 may be introduced to slide in the ways formed between said frame 7 and plate 4. On the upper edge of plate 8 is a tongue 9 bent over at right angles and adapted to enter a recess 10 formed in the bent over upper portion 5 of plate 4. In plates 4 and 8 are circular openings which are in line with the wall opening 2 when the device is in position.

In the present embodiment of my invention, the circular openings in plates 4 and 8 are of the same diameter, and of larger diameter than the wall opening 2. Both of said plate openings are here shown as internally threaded.

In order to apply my device, the cover 12 of the box is removed, and the plate 4 is positioned so that its upper horizontal portion 5 extends through a recess in the upper edge of the box wall, and its flange 6 lies against the inner side of said wall—the said wall preferably filling the space between said flange and the body portion of plate 4. The openings in the box wall, plate 4 and plate 8 are then in line. The threaded end of pipe 11 is engaged in the openings of plate 4 and plate 8, which are correspondingly threaded, and the extremity of said pipe preferably bears against said wall, so that when the pipe is set up, the adapting device is tightly clamped in place.

While I have here shown the openings in plates 4 and 8 as of the same diameter, and both of a diameter greater than that of wall opening 2, this is not essential. Neither is it essential that the opening in plate 4 should be threaded, since obviously the pipe may engage only with slidable plate 8.

In order to lock my device in place, I provide in cover 12 openings to receive fixed lugs 13 secured in the edges of the box walls. In said lugs are holes, through which passes a headed locking bar 14, the protruding end of said bar having an aperture to receive the shackle wire of any seal fastening 15.

I claim:

1. An adapting device for pipe connection to a box having an opening in one of its walls, comprising a plate having an opening in line with said wall opening, means for securing said plate to said wall, a plate having an opening in line with said first-named plate slidable on the outer face thereof, means for supporting said slidable plate, and means for securing a pipe to said slidable plate in registry with the opening therein.

2. An adapting device for pipe connection to a box having an opening in one of its walls, comprising a plate having an opening in line with said wall opening, means for securing said plate to said wall, an undercut three-sided frame on the outer side of

said plate, and a plate slidable in said frame; the said slidable plate having an opening in line with said wall opening, and means for securing a pipe to said slidable plate in registry with the opening therein.

3. An adapting device for pipe connection to a box having an opening in one of its walls, comprising a plate having an opening in line with said wall opening and hooked at its upper edge to engage the upper edge of said wall, an undercut three-sided frame on the outer face of said plate, and a plate slidable in said frame; the said slidable plate having an internally threaded opening in line with said wall opening.

4. An adapting device as in claim 1, the opening in said slidable plate being larger in area than the opening in said wall, and the said openings being circular and concentric.

5. An adapting device as in claim 1, the openings in said plates being larger in area than the openings in said wall, and the said openings being circular and concentric.

6. An adapting device as in claim 1, the openings in said plates being larger in area than the opening in said wall and concentric with one another and with said wall opening.

7. An adapting device as in claim 1, and in combination with said box, means for locking said slidable plate in place.

8. An adapting device as in claim 1, the said slidable plate having a tongue extending over the upper edge of said wall, a cover for said box extending over said tongue, and means for locking said cover upon said box.

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

THOMAS E. MURRAY.

Witnesses:

GERTRUDE T. PORTER,

MAY T. MCGARRY.