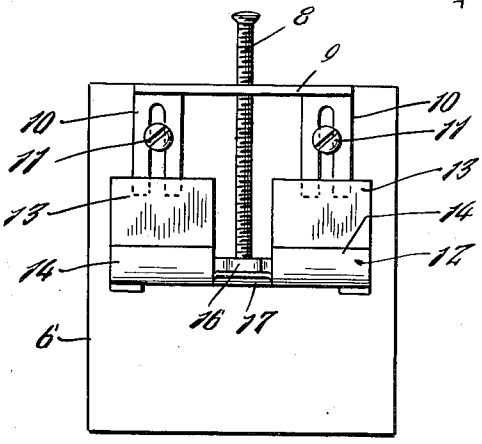
Sept. 16, 1930. M. J. BEHM 1,775,665

SWITCH BOX

Filed Feb. 25, 1929

Fig. 1.



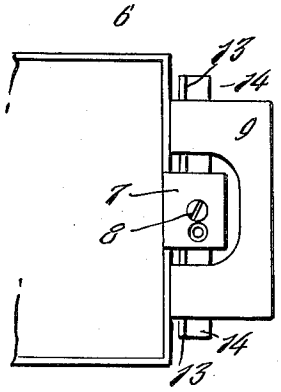
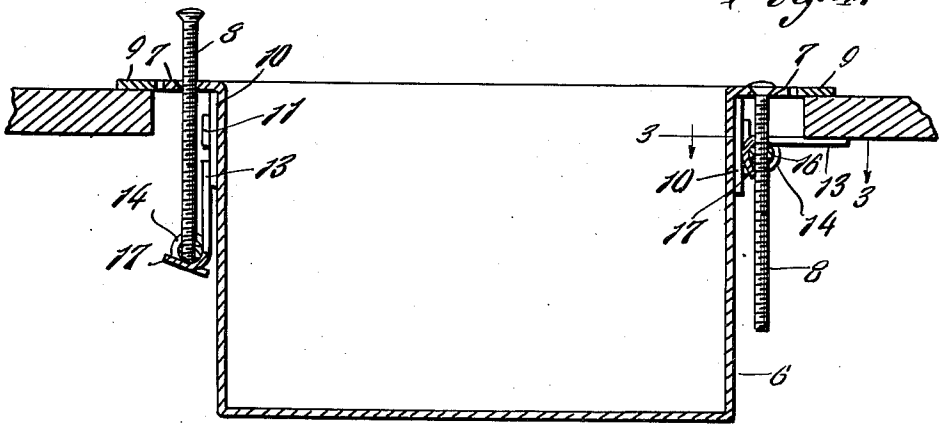


Fig. 2.

Fig. 4.



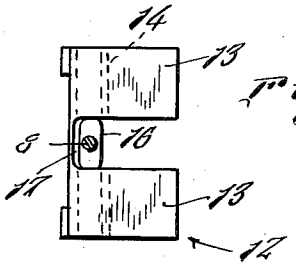


Fig. 3.

Inventor

Merle J. Behm

By Clarence A. O'Brien

Attorney

Patented Sept. 16, 1930 1,775,665

UNITED STATES PATENT OFFICE

MERLE J. BEHM, OF TIFFIN, OHIO

SWITCH BOX

Application filed February 25, 1929. Serial No. 342,475.

This invention relates to what is known in the trade as a B—X switch box, and it has more particular reference to means provided on the opposite ends of the box so that it may be anchored in the opening in a wall whereby to adapt it for convenient and secure fastening on wall board, laths, brick work and the like.

As before indicated, the principal distinction in the structure, is the means for clamping the box in position, and in carrying out this feature of the invention, I have produced a novel and dependable structure which expedites mounting of the box and insures permanent maintenance thereof on the support.

I aim particularly to provide a simple and inexpensive box clamping means including spaced clamping elements or jaws, there being a relatively rigid jaw and a relatively movable jaw, the movable jaw being swingably or hingedly mounted on the box and there being an adjusting screw provided for actuating it in the manner to permit it to be brought into firm clamping position after the switch box is inserted through the opening in the support.

The particular details constituting the alleged novelty will become more readily apparent from the following description and drawings.

In the drawings:

Figure 1 is an end elevation of the switch box embodying clamping means constructed in accordance with the present invention.

Figure 2 is a longitudinal sectional view showing one clamping device fastened and the other one about to be fastened.

Figure 3 is a horizontal sectional view, taken approximately upon the plane of the line 3—3 of Figure 2.

Figure 4 is a fragmentary top plan view of one end of the structure.

In the drawings, the reference character 5 designates the stationary support, which may be a wall. This is provided with an opening for passage of the B—X switch box 6. The box is of ordinary construction. In accordance with the present invention, however, the box has its end walls provided with outwardly extending ears 7 having screw threaded holes for accommodating the shank of an adjusting and retaining bolt 8. The clamping means at each end of the box is the same and a description of one will suffice for both. I first call attention to the stationary jaw plate 9, which extends out at right angles from the end of the box and in a substantial plane with the adjacent ear. The plate has depending slotted ends 10 as seen in Figure 1 and clamping screws 11 as provided for securing these to the end of the box. This allows the jaw to be adjusted.

The relatively movable jaw member is designated generally by the reference character 12. It comprises a body formed in spaced clamping leaves 13, joined to tubular bearings 14. These bearings surround the projecting end portions of a cross-head 16, which is threaded on the stem of the adjusting screw. A web portion 17 joins the bearings 14 together and is bent in such a manner as to provide an abutment for the end of the screw. Normally the leaves 13 are against the end of the box as shown in Figure 1 and also at the left in Figure 2 and the lower end of the screw is in engagement with the abutment 17. Obviously then, by threading the screw downwardly, pressure is exerted upon the abutment between the leaves 13 outwardly to a right angular clamping position. At the same time, the cross head is fed upwardly on the stem of the screw to move the entire clamping jaw 12 up to the clamping position seen in Figure 2 at the right. When in this position, the screw passes down beyond the edge of the abutment and prevents further swinging of the jaw member. Consequently, a tight clamping action may be effected.

A careful consideration of the description in conjunction with the drawings will enable the reader to obtain a clear understanding of the construction, operation, features and advantages of the improved clamping means.

Therefore a more lengthy description is regarded as unnecessary.

Minor changes in the shape, size and rearrangement of details coming within the field

of invention claimed may be resorted to, in actual practice, if desired.

I claim:

1. In a structure of the class described, a switch box provided with an outstanding apertured ear, a relatively stationary clamping jaw disposed in a substantial plane with said ear, a bolt mounted on said ear, a cross head carried by said bolt, and a relatively movable clamping jaw swingably mounted on said cross head.

2. In a structure of the class described, a switch box provided with an outstanding apertured ear, a relatively stationary clamping jaw disposed in a substantial plane with said ear, a bolt mounted on said ear, a cross head carried by said bolt, and a relatively movable clamping jaw swingably mounted on said cross head, said relatively movable jaw embodying an abutment with which the end of the bolt is engageable for swinging the movable jaw outwardly.

3. In a structure of the class described, a box having an outstanding apertured ear on one end, a relatively stationary clamping jaw adjustably mounted on said end and disposed in a substantial plane with said ear, a bolt threaded through the ear, a cross head on the bolt, a complemental relatively movable clamping jaw including spaced bearing portions surrounding the extended ends of said cross head and provided with clamping leaves, and an intervening web portion between said bearing portions, said webs being bent in a manner to provide an abutment with which the adjacent end of the bolt is engageable.

In testimony whereof I affix my signature.

MERLE J. BEHM.