J. Z. BAYLISS & C. RAUS.

SWITCH BOX.

APPLICATION FILED AUG. 31, 1914.

1,167,879. Patented Jan. 11, 1916.

Fig. 1.

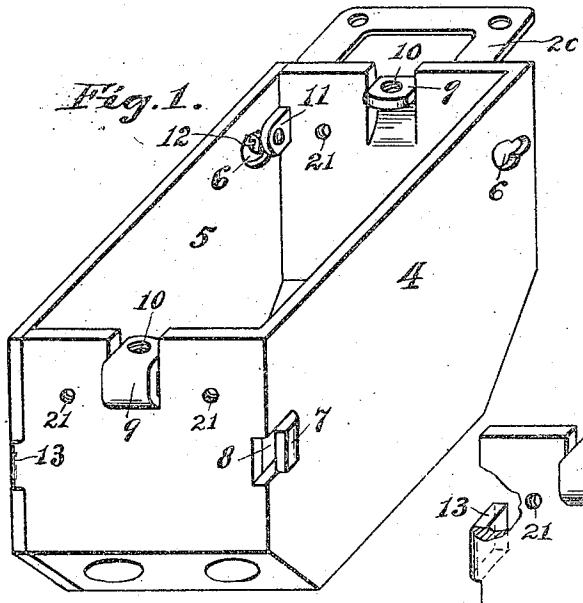


Fig. 2.

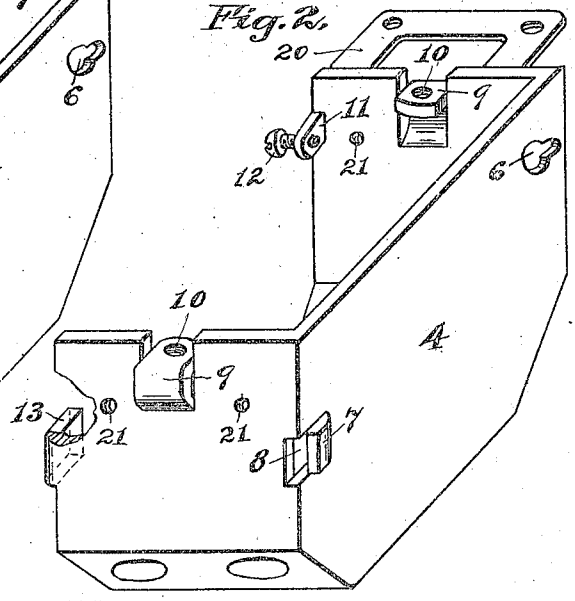
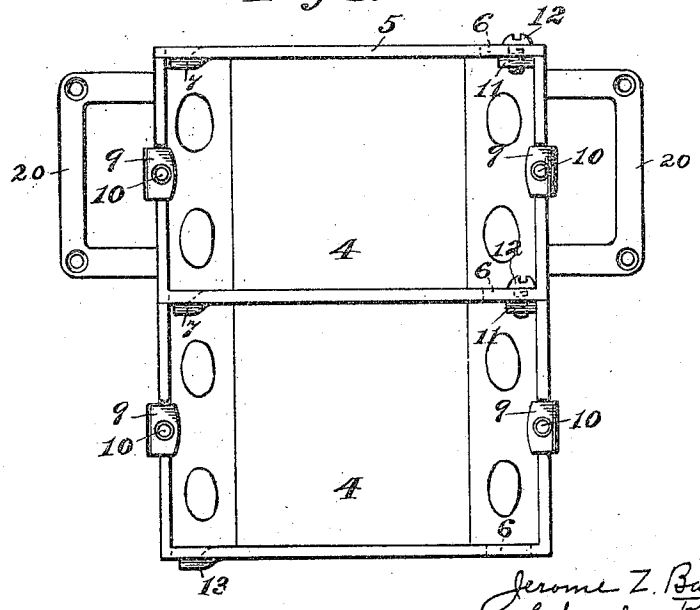


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

JEROME Z. BAYLISS AND CHARLES RAUS, OF CLEVELAND, OHIO.

SWITCH-BOX.

REISSUED

1,167,879. Specification of Letters Patent. Patented Jan. 11, 1916.

Application filed August 31, 1914. Serial No. 859,521.

To all whom it may concern:

Be it known that we, JEROME Z. BAYLISS and CHARLES RAUS, citizens of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Switch-Boxes, of which the following is a specification.

This invention refers to outlet boxes or switch boxes, particularly adapted for house wiring, and for the location of switches in walls or the like, and the objects of the present invention are to improve the box with respect to the manner of fastening the switch in place therein; to improve the box with respect to the manner of fastening it to the wall; and to generally improve the construction of such devices.

In the accompanying drawings: Figure 1 is a perspective view of a single box or unit. Fig. 2 is a similar view of one of the parts thereof. Fig. 3 is a plan view showing two units connected to form a gang box.

The drawings and description are merely for the purpose of illustration of one embodiment of the invention, and various modifications may be made within the scope thereof.

The present construction of such boxes is attended with certain disadvantages with respect to manufacture and installation, one being the numerous parts required to form a complete box, another being the necessity for removal of considerable parts of the lath and plaster for the location and installation of such boxes, and another being the liability of separate parts to become loose, resulting in breakage of the electrical connections, and possibly fires. The present invention is designed to cure defects and to save time and labor in the construction and installation of the boxes.

Referring specifically to the drawings, 4 indicates a box section made of sheet metal or the like. This can be stamped or pressed out of sheet metal, to form one side, the two ends, and the bottom of the box. To form a single or unit box, a side plate 5 is fitted to the open side of the part 4, by means of a screw 12 which engages a lug 11 projecting inwardly at one end of the box, and a lug 13 projecting inwardly from the other end of the box, the lug 13 engaging behind an offset lug 7 on the end of the side plate 5. The key-hole slot 6 permits quick detachment or attachment of the side plate 4.

An important feature of the invention is the formation and arrangement of the lug 9 to which the switch of ordinary type is attached by means of screws in the holes 10 formed in the ends of said lugs. These lugs are cut and struck up from the ends of the sheet metal body and are bent so that the tapped holes 10 are in line with the ends of the body. In the illustration, the ends of the lugs 9 are bent inwardly, but it is within the scope of the invention to bend said ends outwardly or reversely to that shown in the drawings, the holes 10 being in line, nevertheless, with the sides of the box. This avoids the necessity of a large amount of cutting of the lath and plaster to permit the insertion of outwardly extending lugs as in former constructions, and the lugs being integral with the frame or box looseness or detachment thereof is prevented. Furthermore, the ends of the lugs are located a slight distance below the plane of the edge of the walls of the box, which permits some adjustment of the switch, or rather enables the switch to be set in place notwithstanding the small variations in the fit thereof.

For attaching the box to the wall or structure, we provide angular ears 20 which may be attached to the box by screws in the holes 21, the ears being shaped to conform to the surface to which the box is to be applied, and also preferably capable of adjustment in an old manner.

For building up a gang box, as shown in Fig. 3, the standing or fixed side of the casing 4 is provided with an offset ear 7 and recess 8 thereunder, and a key-hole slot 6, and additional sections 4 may be added to a unit by engaging the lug 13 in the recess 8, behind the lug 7, and engaging the screw 12 in the slot 6, in a manner similar to that described above with respect to the side plate 5. Gangs of any size may thus be built up according to local conditions. The use of the integral ears 9 tapped to receive the switch screws avoids the use of the ordinary tapped bushings, which are often distorted by pressure and liable to become loose or unserviceable because of incorrect alinement.

What we claim as new is:

1. An outlet or switch box comprising a casing having an open side and lugs projecting inwardly adjacent to said side from the ends of the casing, one of said lugs being tapped to receive a screw, and a remov-

able side plate having an offset lug adapted to engage the other of said inwardly projecting lugs, and also having a key-hole slot adapted to receive the screw.

2. A gang outlet box comprising a unit box or casing one side of which has an offset lug with an opening thereunder, and a key-hole slot, and another unit or box fitting against the side of said box and having a lug engaging in the recess behind said lug and also having a screw engaging in said key-hole slot.

In testimony whereof, we affix our signatures in presence of two witnesses.

JEROME Z. BAYLISS.
CHARLES RAUS.

Witnesses:
JOHN A. BOMMHARDT,
J. B. DANS.