Sept. 2, 1930. J. MANGIN 1,774,934

OUTLET BOX AND SUPPORT

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Fig. 1.

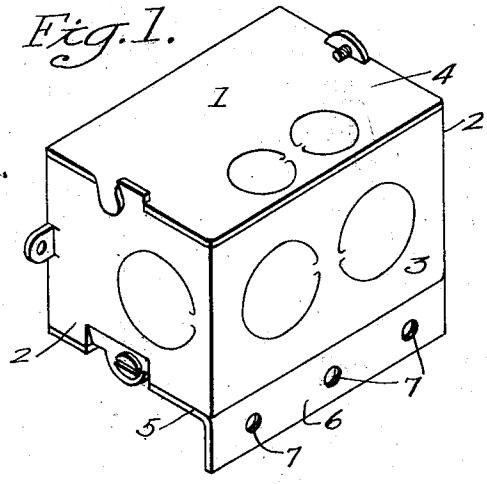


Fig. 4.

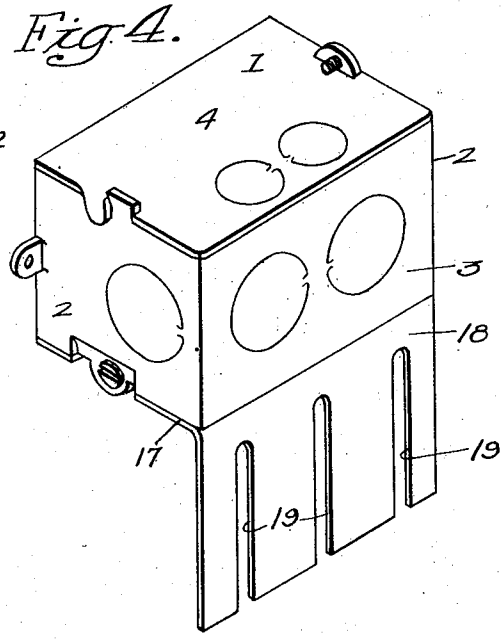


Fig. 2.

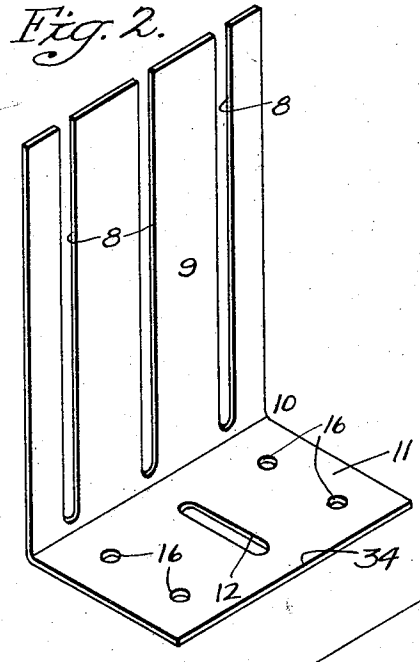


Fig. 5.

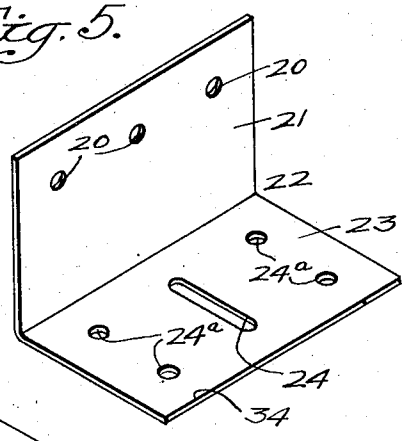
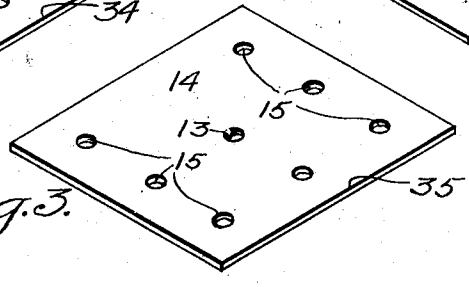


Fig. 3.



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OUTLET BOX AND SUPPORT

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Fig. 6.

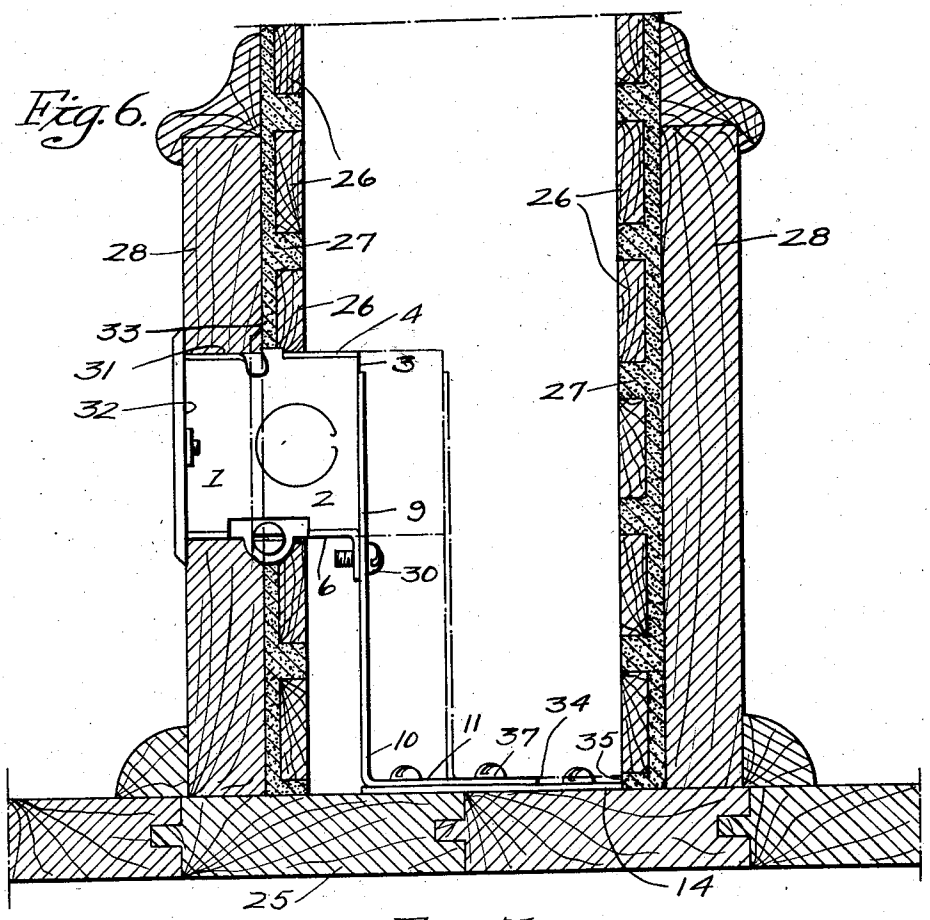
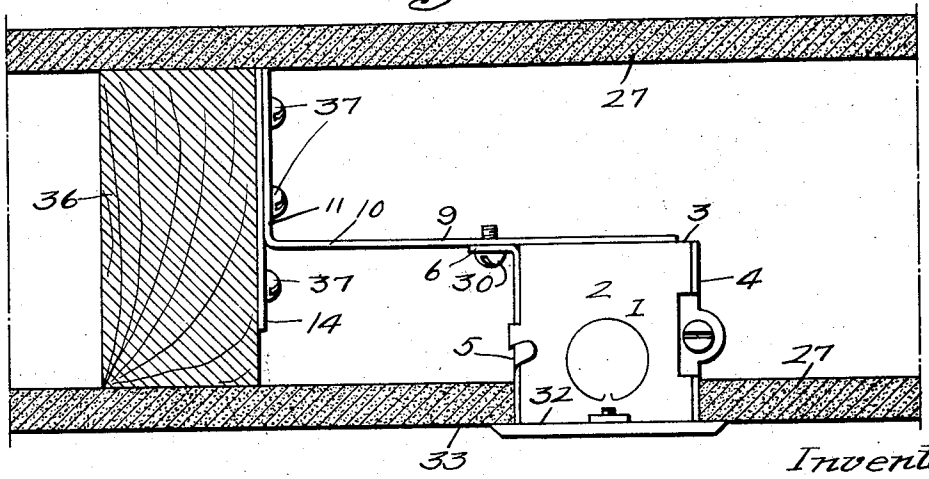


Fig. 7.



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OUTLET BOX AND SUPPORT

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Fig. 8.

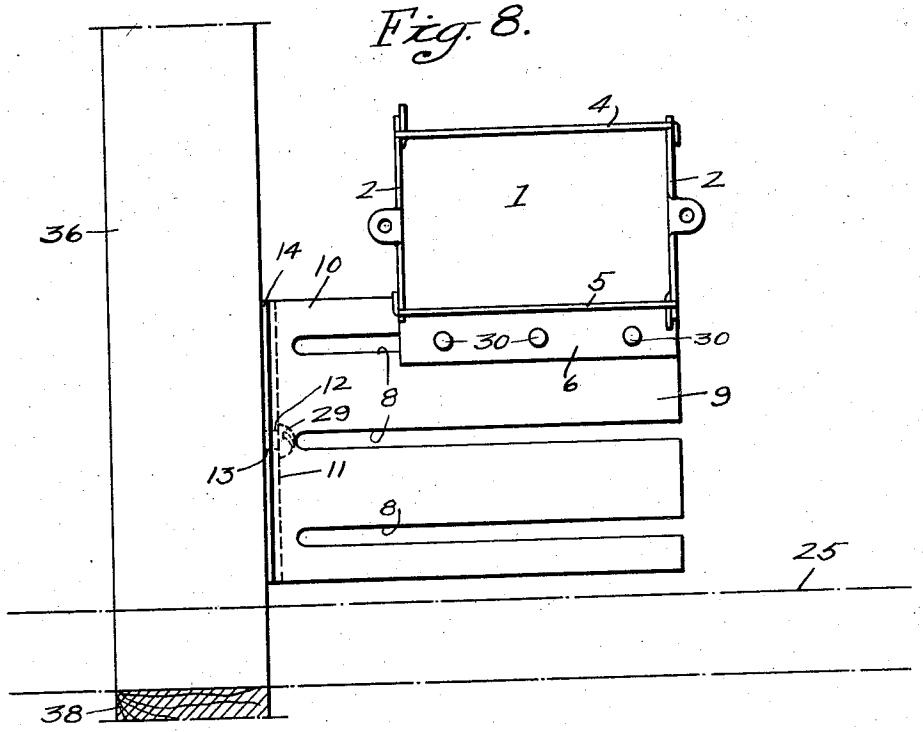
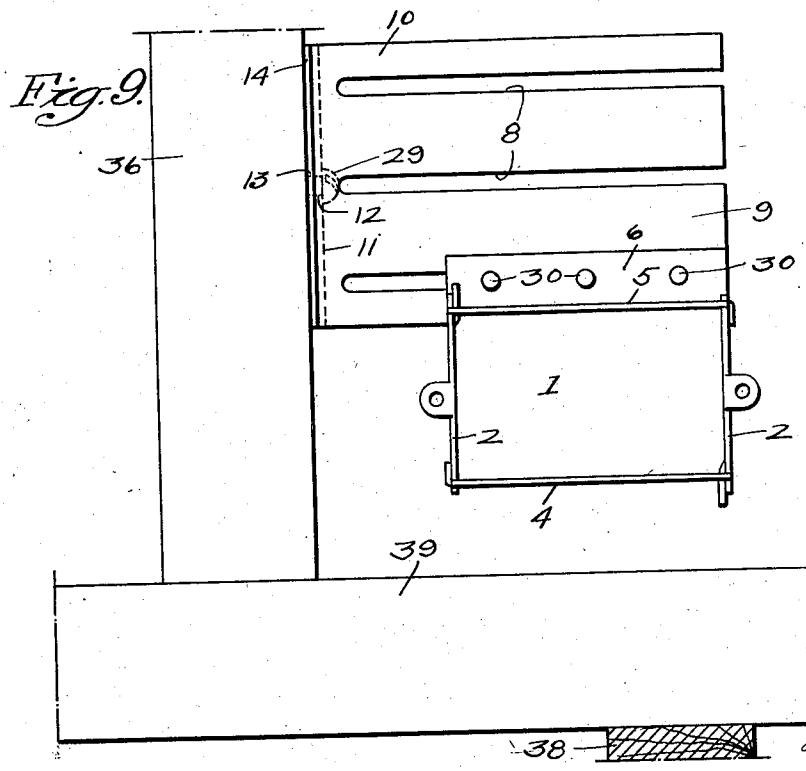


Fig. 9.



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Patented Sept. 2, 1930 1,774,934

UNITED STATES PATENT OFFICE

JAMES MANGIN, OF NEW BRUNSWICK, NEW JERSEY

OUTLET BOX AND SUPPORT

Application filed September 25, 1928. Serial No. 308,194.

This invention relates to outlet boxes, and is more particularly concerned with a new and improved form of the box and an adjustable support therefor, whereby it can be moved at will, without preliminary measuring, so that it will be flush with either the plastering or base board of a wall partition.

An object of the invention is to provide a new form of outlet box.

Another object is to devise a new form of outlet box provided with a new form of support.

Another object is to devise a new form of outlet box having a new form of support which in turn is provided with an adjustable base member.

Still another object is to devise a new form of outlet box structure whereby the outlet box can, at will, and without preliminary measurement, be placed either flush with the plastering or with the base board of a wall partition.

Yet another object is to construct an outlet box structure which can be secured at will to the floor boards, the studding or whatever else may be desired, and which is adjustable in any of those positions so that the outlet box can without preliminary measurement, be placed flush with either the plaster or the base board.

Other objects will appear hereinafter.

In the drawings, in which there are illustrated two forms of my invention and in which the preferred form is shown in several different operable positions,

Fig. 1 illustrates in perspective, an outlet box having a bottom side on which there is a depending flange provided with tapped holes;

Fig. 2 is a perspective showing of a supporting or angle plate cooperating with the flange of Fig. 1;

Fig. 3 shows a base plate which is common to both forms of the invention;

Fig. 4 is a perspective showing of another form of the outlet box;

Fig. 5 illustrates an annular supporting member therefor;

Fig. 6 is a sectional elevation, the outlet box being shown in full lines as it would be when positioned flush with the base board, and in dotted lines as it would be when positioned flush with the plastering;

Fig. 7 shows the outlet box arranged to receive a switch and illustrates the supporting member and base member as secured to the studding;

Fig. 8 illustrates an installation wherein the studding is secured directly to the joist, and wherein the outlet box is supported directly from the studding, while

Fig. 9 shows an installation similar to that of Fig. 8, wherein the studding is supported by sills which in turn are supported by the joist, the outlet box, here shown as inverted, being supported from the studding.

Referring more particularly to Figs. 1–3, the outlet box 1 comprises the usual punched sheet bent to form end walls 2, 2 and bottom 3, a side wall 4 of usual construction, and a second side wall 5 on which is integrally formed a supporting plate 6, bent at right angles to the side wall 5 of the outlet box 1.

A supporting plate or depending flange 6 is provided with a number of tapped holes 7, which are adapted to align with the slots 8 formed in a flange 9 of an angle plate 10, a second flange 11 of which is provided with an elongated slot 12 adapted to align with a threaded aperture 13 formed in a base plate 14. A base plate 14 is provided with a series of apertures adjacent each end thereof, and the flange 11 of the angle plate 10 is provided with holes 16, 16 adapted to align with corresponding pairs of holes 15 in the base plate 14.

Fig. 4 illustrates an outlet box somewhat similar to that shown in Fig. 1. As shown, it comprises a punched sheet bent to form end walls 2, 2 and bottom 3. It has a side wall 4 and a second bottom side wall 17 on which is integrally formed a supporting plate 18 bent at right angles to the side wall 17 of the outlet box 1. The plate 18 is provided with elongated slots 19 which are adapted to align with threaded holes 20, 20 formed in one flange 21 of an angle plate 22, a second flange 23 of which is provided with an elongated slot 24 adapted to align with a threaded aperture 13 formed in the base plate 14. The flange 23

is provided with holes 24ª, 24ª, adapted to align with the corresponding pairs of holes 15 in the base plate 14.

Fig. 6 illustrates the outlet box installed in a room partition for the reception of a base socket. A floor is illustrated at 25 to which is secured the studding of a room partition. The partition comprises the usual lath 26, 26 nailed to each side of the studding, and a suitable body of plaster 27 applied to the lath. The base board at each side of the partition is illustrated at 28. In this installation, the base plate 14 is secured to the floor boards 25 by suitable means such as screws, nails or the like with one of its edges aligned with one edge of the studding against the latch. The angle plate 10 is secured to the base plate 14 by means of a screw 29 which passes through the slot 12 in the flange 11 of the angle plate 10, and is secured in the threaded aperture 13 of the base plate 14.

The outer edge of the flange 9 of the angle plate 10 is aligned with the opposite edge of the base plate 14, and the supporting plate 6 of the outlet box 1 is secured to the said flange 9 by means of screws 30, 30 passing through the slot 8 in the flange 9 and secured in the threaded apertures 7 in the supporting plate 6. The slots 8 provide for vertical adjustment of the box 1 relative to the floor 25 and to the opening 31 formed in the base board 28 and the plaster 27 of the partition. With this installation, the outer edge 32 of the outlet box is aligned with the outer face of the base board 28. In cases where the outer edge 32 of the box is to be aligned with the face 33 of the plaster, the angle plate 10 is moved longitudinally of the base plate 14 until the edge 34 of the flange 11 is aligned with the edge 35 of the base plate 14, as shown in dotted lines in Fig. 6.

In Fig. 7, the outlet box 1 is employed for the reception of the control switch. Here the base plate 14 is secured to the studding 36 and the outlet box 1 extends vertically instead of horizontally.

Regardless of which position the angle plate 10 occupies with respect to the base plate 14, the pair of holes 16, 16 in each end of the flange 11 will align with two of the holes 15 at each end of the base plate 14 for the reception of nails or screws 37. This construction permits the proper positioning of the edge 32 in alignment either with the outer face of the base board 28 or the surface 33 of the plaster 27 without requiring the usual measuring in order that the edge of the box will be properly located when the installation is being made.

Fig. 8 illustrates an installation wherein the flooring 25 does not run between the studding, the studding 36 being secured directly to the joist 38. This installation is for a floor outlet, similar to that illustrated in Fig. 6. In this case, the base plate 14 is secured to the studding 36, and the box 1 is secured to the flange 9 of the angle plate 10 by means of screws 30 extending through one of the slots 8 in the flange 9 and secured in the apertures 7, 7 in the supporting plate 6.

Fig. 9 illustrates an installation similar to that of Fig. 8, in which the studding 36 is secured to a sill 39 carried on the joist 38. In this case the box 1 is inverted so that the plate 6 thereof projects vertically; the base plate 14 being secured to the box 1, and the angle plate 10 being secured to the base plate 14 in the same general manner as illustrated in Fig. 6.

As will be readily understood, the invention is susceptible to numerous modifications, and it is intended that it be limited only by the scope of the appended claims.

I claim:

1. In combination with a wall and base-board, an outlet box, a supporting plate therefor, a base plate for said supporting plate and adapted to abut the back lathing of the wall, and means in said base plate for sliding said supporting plate therealong to any predetermined distance so that the outlet box may quickly be adapted to be flush with either the wall or base board, thereby eliminating preliminary measurements for properly locating the outlet box.

2. In combination with a wall partition having a base-board, an outlet box, a supporting plate therefor, a base plate for said supporting plate adapted to abut the back lathing of the wall, the base plate and supporting plate each having slots for sliding the supporting plate along the base plate so that when the base plate abuts the back lathing of the wall partition, the two plates may be placed so that the outlet box lies flush with either the base board or wall, as desired, thereby eliminating preliminary measurements for properly locating the outlet box.

3. An outlet box having a side wall on which there is a depending flange, a supporting plate for said outlet box, and adjustably associated with said flange, and a base plate provided with means for sliding said supporting plate therealong so that the two plates may be quickly and positively moved to any desired one of a plurality of positions, thereby eliminating preliminary measurements for properly locating the outlet box.

4. An outlet box having a side wall on which there is a depending flange, said flange having a hole tapped therein, a screw in said hole, an angle-shaped supporting member having a slot in one of its legs for the reception of said screw, apertures in the other of said legs for the passage of screws, a central slot in said last mentioned leg, a base having a plurality of apertures for cooperation with the holes in said last mentioned leg, and having another aperture for the reception of a screw which rides in said central slot.

5. An outlet box having a side wall on which there is a depending flange, said flange having a plurality of holes tapped therein, a screw in said holes, an angle-shaped supporting member having slots in one of its legs for the reception of said screws, apertures in the other of said legs for the passage of screws, a central slot in said last mentioned leg, a base having a plurality of apertures for cooperation with the apertures in said last mentioned leg, and having another aperture for the reception of a screw which rides in said central slot.

6. An outlet box having a side wall on which there is a depending flange, said flange having a hole tapped therein, a screw in said hole, an angle-shaped supporting member having a slot in one of its legs for the reception of said screw, the other of said legs having apertures arranged in a row, the apertures being a predetermined distance apart, said leg also having a slot of length equal to the distance between said apertures, a base member having a row of apertures, said apertures being arranged the same distance apart as the apertures in said leg, and having another aperture receiving a screw which fits in said slot, the apertures of the leg fitting one set of apertures in the base member when the screw is at the end of the slot, and fitting another set when the screw is at the other end of the slot.

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