No. 886,978. PATENTED MAY 5, 1908.

R. D. HOLABIRD.

CONNECTION BOX.

APPLICATION FILED MAY 21, 1907.

Fig. 1.

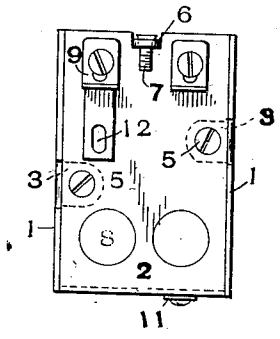


Fig. 2.

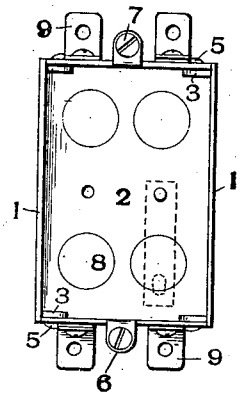
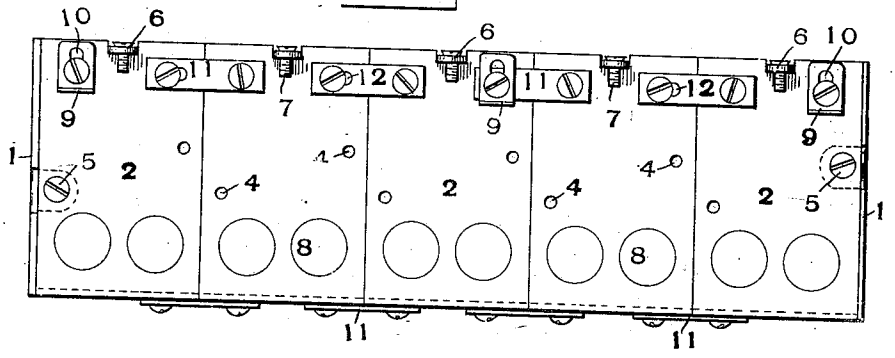


Fig. 3.



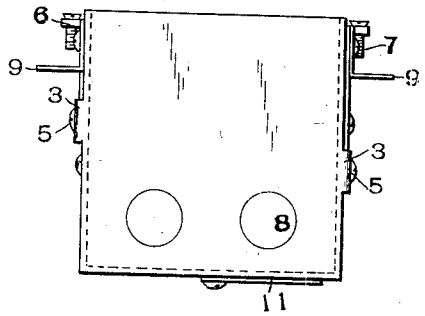


Fig. 4.

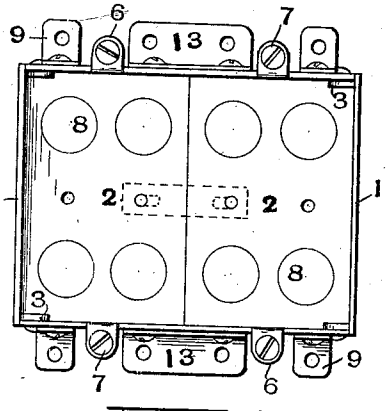


Fig. 5.

Witnesses
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UNITED STATES PATENT OFFICE.

RUSSELL DORR HOLABIRD, OF LOS ANGELES, CALIFORNIA, ASSIGNOR TO HOLABIRD-REYNOLDS ELECTRIC COMPANY, OF LOS ANGELES, CALIFORNIA.

CONNECTION-BOX.

No. 886,978. Specification of Letters Patent. Patented May 5, 1908.

Application filed May 21, 1907. Serial No. 374,900.

To all whom it may concern:

Be it known that I, RUSSELL DORR HOLABIRD, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented certain new and useful Improvements in Connection-Boxes, of which the following is a specification.

My invention relates to outlet or connection-boxes for interior electric wiring, and more particularly to connection boxes or switch boxes usually termed multiple unit or "munit" boxes; and my object is to provide a single unit box so constructed and having such accessories that a plurality of such units may be readily "ganged" or built up by the workman into boxes of any desired size, at the point of installation, and without the use of any special tools. I attain these objects by the construction shown in the accompanying drawing, in which:

Figure 1 is a side elevation of a single box or unit; Fig. 2 a top plan view of the same; Fig. 3 a side elevation of several units built up into a multiple unit box; Fig. 4 is an end elevation of a unit with a slightly modified form of lug, and Fig. 5 is a top plan of a further modification, showing the manner of ganging the same.

1 represents the ends of the box, preferably stamped and die-shaped from sheet metal of suitable thickness. These ends are identical in all respects, and interchangeable.

2 represents the body of the box, comprising the bottom and two integral sides, also preferably stamped and bent up from suitable plate or sheet metal and, like the ends, interchangeable. The ends are provided with suitably tapped lugs 3, symmetrically located, and the sides with perforations 4, correspondingly located, so that the sides and ends may be assembled and secured by screws 5. The lugs 3 may be turned to fit either the exterior of the box, as in Fig. 4, or the interior; but preferably the latter, because of the neater appearance of the assembled box and the saving of stock occasioned thereby. The box-body is also provided with lugs 6 and screws 7 for supporting the inclosed switch, or other fitting, (not shown). Both ends and body are provided with numerous, readily-removable disks 8, closely fitting the holes from which they are punched, and permitting the connecting up of wires at any desired point.

Attached to each side or the box are lugs 9, provided with a plurality of openings, one opening 10 in each lug, being preferably elongated for ready adjustment, and these lugs serving as means for securing the box to the wall. Under one lug at each side of the box, as well as to the bottom thereof, is temporarily secured a link or clip 11, provided with one or more elongated openings 12, for ease of adjustment. Instead of providing separate clips, one end of each unit may be furnished with a longer supporting lug 13 (Fig. 5), secured by two screws; while the opposite end has two shorter or single lugs.

Considering Figs. 1, 2 and 4, it will be readily seen that each unit is complete in itself, and is also furnished with all necessary fittings to enable it to be assembled with others into a box of any desired size, with the use of no other tool than a screw-driver. For example; in Fig. 3, both ends of each of three units and one end of each of two units are removed, and five interchangeable bodies and two ends united by the clips 11 into a box suitable for a bank of five switches. In such case, only so many lugs 9 need be retained as are necessary to properly support the box in place; and these lugs may be adjusted or reversed as may be necessary to properly seat the cover-plate flush on the wall surface. In Fig. 5, one end of each of two boxes is removed and the lugs of the boxes rearranged with one long lug 13 at each side of the multiple unit, to be used as a combined clip and lug; while the single lugs may be removed or located as may be desirable.

Other modifications than those described may be made without departing from my invention; since

What I claim is:

1. A connection box for electric wiring, comprising a body section and interchangeable end sections, said sections having coöperating connecting means, and additional means for connecting a plurality of body sections to form a larger sectional box.

2. A connection box for electric wiring, comprising a body section and interchangeable end sections, said body section having readily-removable, coöperating means for connecting a plurality of body sections and end sections to form a multiple unit box of any desired size.

3. A connection box for electric wiring, comprising a body section and interchangeable end sections, said body section having removable connecting members for joining a plurality of sections to form a multiple unit box.

4. A connection box for electric wiring, comprising a body section, interchangeable end sections, means for detachably securing the end sections to the body section, and means removably secured to the body section for connecting such body section to a duplicate body section to form a multiple unit box.

5. A connection box for electric wiring, comprising a body section, interchangeable end sections, means for detachably uniting said body section and end sections, and members removably secured to the body section for connecting it to a similar body section, some of said connecting members having lateral projections adapted to form a support for said box.

6. A connection box for electric wiring, comprising a body section, interchangeable end sections, means for detachably securing the end sections to the body section, and separable, combined, supporting means and connecting means for uniting said body section to a duplicate body section and to the supportion structure.

7. A multiple unit connection box for electric wiring, comprising a plurality of interchangeable body sections, end sections, detachable means for connecting the body-sections to each other and means for connecting said body sections to the end sections.

8. A multiple unit connection box for electric wiring, comprising a plurality of interchangeable body sections, interchangeable end sections, means removably secured to each body section for uniting a plurality of body sections and separate removable means for securing thereto end sections to form a box of any desired size.

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

RUSSELL DORR HOLABIRD.

Witnesses:

CHARLES C. HUDSON,

A. ALLEN SMITH.