

Jan. 27, 1931.

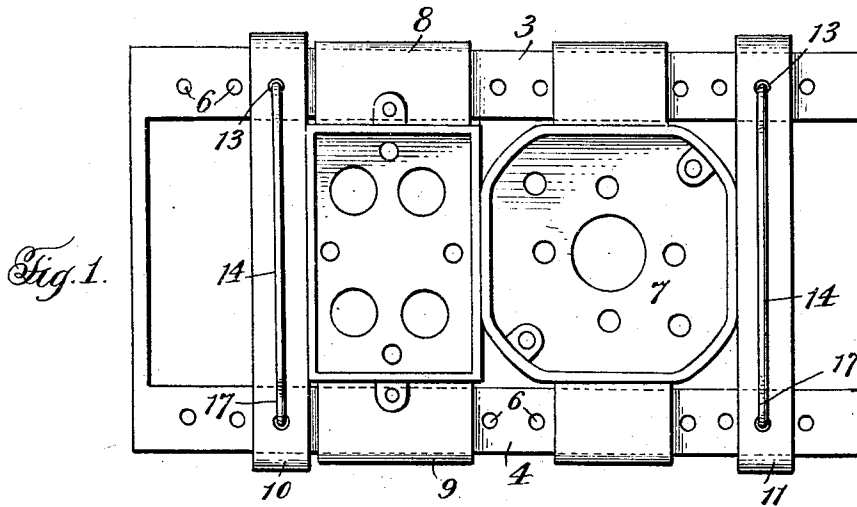
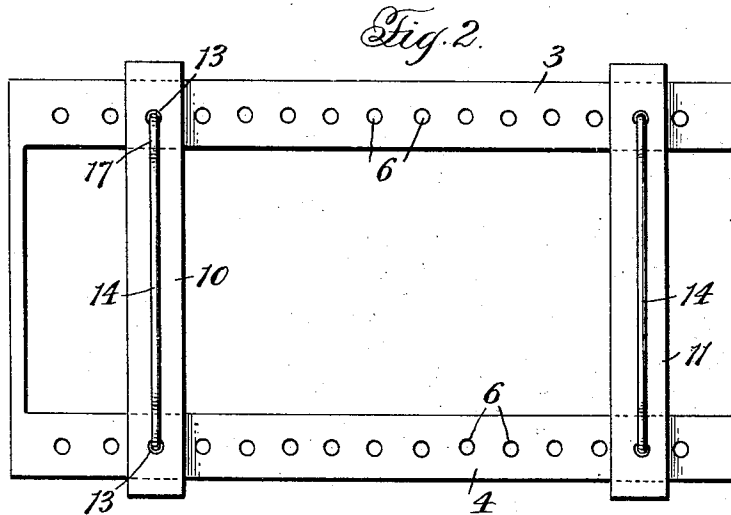
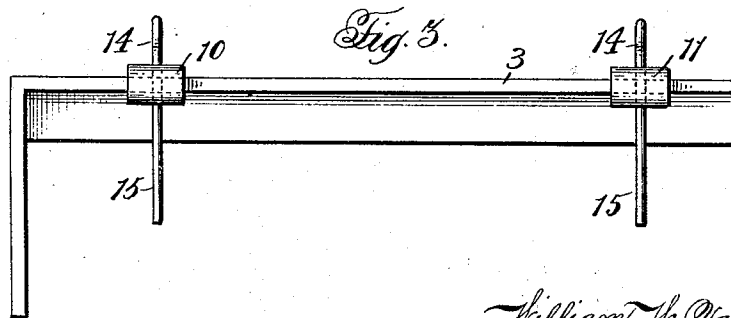
W. W. VAUGHN

1,790,031

SUPPORT

Filed March 23, 1927

2 Sheets-Sheet 1



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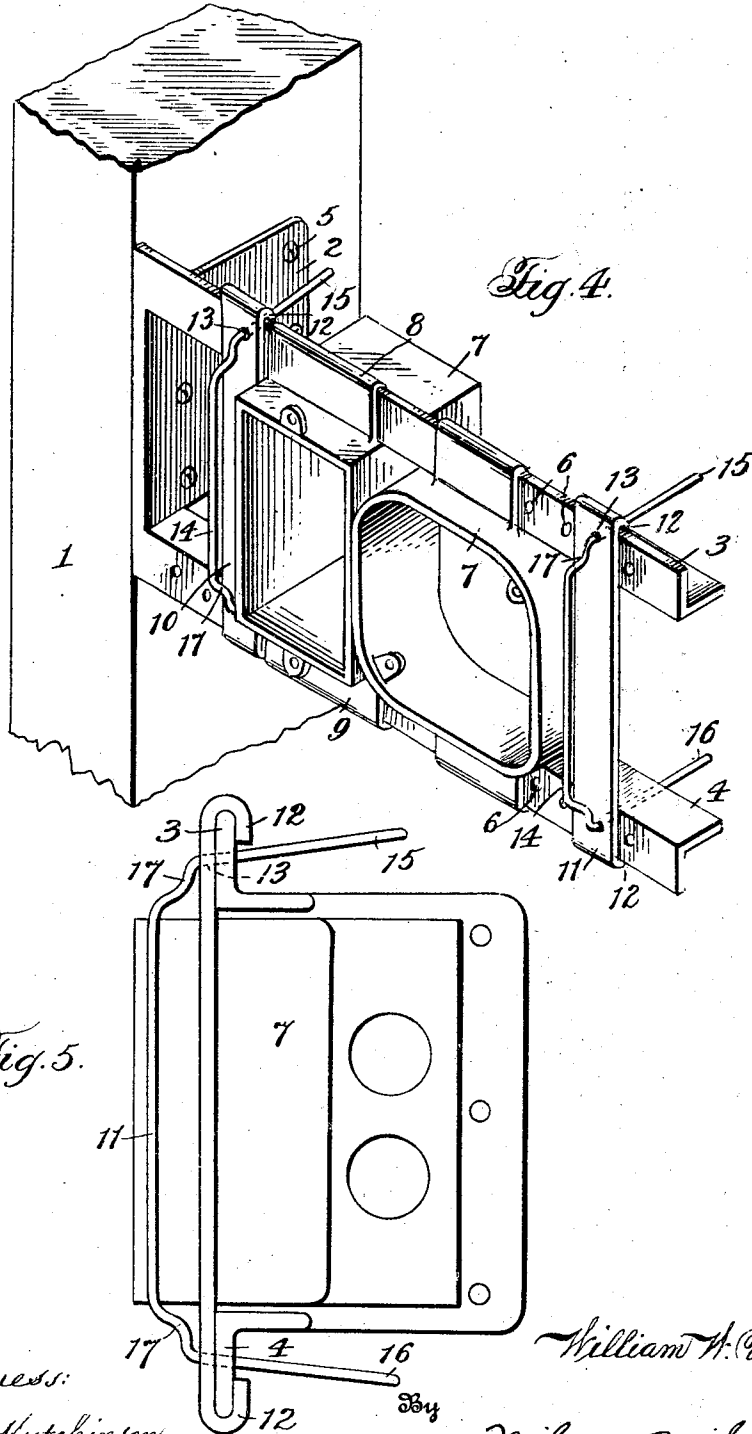
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

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SUPPORT

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My invention relates to new and useful improvements in supports and more particularly to a support for outlet, switch, and receptacle boxes or other electrical devices used in electrical installation, the principal object of the invention residing in the provision of such a support which may be easily secured to or removed from a stud or joist and of such a size as to be positioned between two studs or joists for supporting either a single box or a multiplicity thereof.

Another object of the invention consists in the provision of a support upon which the boxes or the like are detachably mounted and may be adjusted longitudinally of the support and one relative to the other, means being provided for holding them in their adjusted positions.

A further object resides in the provision of spaced supporting arms between which the boxes will be positioned, the boxes having members to be engaged with the arms, and locking members engageable with the arms and boxes to prevent longitudinal movement of the boxes relative to the arms.

With the above and other objects in view, which will appear as the description proceeds, my invention consists in the novel details of construction, and arrangement of parts, described in the following specification and illustrated in the accompanying drawings, and while I have illustrated and described the preferred embodiments, as they now appear to me, it will be understood that such changes may be made as will fall within the scope of the appended claims.

In the drawings:

Fig. 1 is a front elevation showing boxes mounted upon the support.

Fig. 2 is a front elevation of the support with the boxes removed.

Fig. 3 is a top plan of the support.

Fig. 4 is a perspective showing the support connected to a stud or joist, with the boxes in position; and

Fig. 5 is an end view of the support with the boxes in position.

In the drawings 1 indicates a stud or joist to which my improved form of support is adapted to be connected. The support in-

cludes the plate 2 which is adapted to extend parallel with a face of the stud or joist 1, as shown more particularly in Fig. 4 of the drawings, and the horizontally extending vertically spaced arms 3 and 4 which are of angle iron formation. The arms 3 and 4 extend at right angles to the plate 2 and the plate is adapted to be secured to the stud or joist 1 by means of the screws 5 or other suitable fastening members. Each of the arms 3 and 4 is provided with the longitudinally spaced perforations 6 for a purpose which will be later apparent.

Switch or outlet boxes are shown at 7 and may be of the different or varying shapes desired, boxes of two different shapes being illustrated in Figs. 1 and 4 of the drawings. The boxes are adapted to be positioned between the arms 3 and 4 of the support and are positioned by longitudinal movement relative to the arms. Each of the boxes is provided on the top with the hooked extension 8 which is adapted to engage the vertically extending portion of the arm 3 and on the bottom with the hooked extension 9 adapted to engage the vertical portion of the arm 4.

For positioning the boxes on the arms of the support and for holding them against longitudinal movement relative thereto I provide the plates 10 and 11 each of which is provided with the hooked ends 12 adapted to surround the longitudinal edges of the vertical portions of the arms 3 and 4 as shown more particularly in Fig. 5 of the drawings. Each of the plates 10 and 11 is provided adjacent each end with a perforation 13 adapted to be brought into registration with one of the perforations 6 of the arms. For securing the plates 10 and 11 to the arms I provide fastening members which are formed of wire or similar material, each of the fasteners including the vertically extending portion 14 and the right angled end extensions 15 and 16. Between the portion 14 and the extensions 15 and 16 are the offsets 17 for the purpose of holding the locking device in position. The extensions 15 and 16 are adapted to be passed through the aligned perforations 13 in the plates and the open-

ings 6 of the arms. The extensions extend at a slight angle so that when passed through the perforations or openings they will be held against accidental displacement and the fasteners can only be removed by drawing the same from the perforations or openings by force.

From the above it is thought that the detailed construction of my invention will be understood. The support is of relatively simple construction, may be cheaply made, may be easily connected to a stud or joist, and the arms are of such a length that the support may be positioned between two studs or joists. When the boxes or similar devices are to be supported the plate 10 will be first positioned upon the arms and held in the desired position by means of its fastening member. The boxes are then positioned by longitudinal movement relative to the arm with their hooked extensions engaging the vertical portions of the arms. The plate 11 is then positioned on the arms and secured in position by its fastening member. As the openings 6 in the arms are longitudinally spaced it can be seen that the boxes may be positioned at any desired point or points along the arms and secured in such position or positions. While I have illustrated in the drawings two boxes as being positioned with their sides in contact it will be understood that they might be spaced apart and that plates of a construction similar to those shown at 10 and 11 might be positioned between the two boxes and in engagement with the side walls thereof to position them at the desired points. While I have illustrated two boxes in use it can be appreciated that any desired number might be used according to the length of the arms.

Having fully described my invention what I claim as new and desire to secure by Letters Patent is:

1. A device of the character described including vertically spaced arms, a box received between the arms and adjustable relative thereto, a plate adjustable on the arms and engageable with the box for holding the same in position, and a member for securing the plate in position, said member including flexible extensions adapted to extend through the plate and arms and normally frictionally held in position.

2. A device of the character described including vertically spaced arms, a box received between the arms and adjustable relative thereto, a plate adjustable on the arms and engageable with the box for holding the same in position, and a member for securing the plate in position, said member including outwardly inclined extensions adapted to extend through the plate and arms.

3. A device of the character described including vertically spaced arms, a box received between the arms and adjustable relative

thereto, a plate adjustable on the arms and engageable with the box for holding the same in position, and a member for securing the plate in position, said member including outwardly inclined flexible extensions adapted to extend through the plate and arms and normally frictionally held in position.

4. A device of the character described including vertically spaced arms, a box received between the arms and adjustable relative thereto, a plate adjustable on the arms and engageable with the box for holding the same in position, and a member for securing the plate in position, said member including a vertically extending portion extending parallel with the plate and spaced therefrom and extensions at substantially right angles thereto, said extensions adapted to pass through the plate and arms.

5. A device of the character described including vertically spaced arms, a box received between the arms and adjustable relative thereto, a plate adjustable on the arms and engageable with the box for holding the same in position, and a member for securing the plate in position, said member including a vertically extending portion offset from the face of the plate and extensions at right angles thereto adapted to pass through the plate and arms.

6. A support of the character described comprising a pair of parallel arms, a box received between the arms and adapted to be carried thereby, and means for holding the box against longitudinal movement on the arms, said means including plates carried by the arms and positioned on opposite sides of the box and members adapted to extend through the plates and arms, the members each including an intermediate portion extending parallel with its associated plate and offset therefrom to provide a grip whereby the member may be readily positioned or removed.

In testimony whereof I hereunto affix my signature.

WILLIAM W. VAUGHN.