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SUPPORT FOR CONDUIT OUTLET BOXES.

APPLICATION FILED JUNE 18, 1912.

1,098,581. Patented June 2, 1914.

Fig. I.

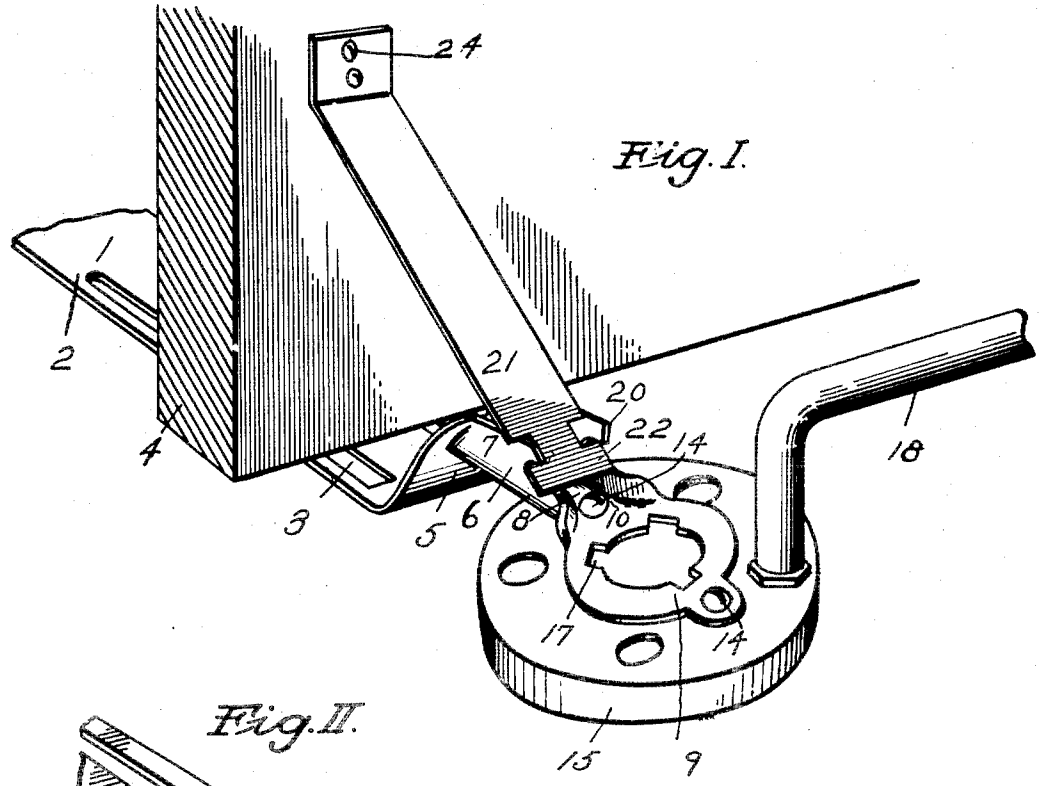


Fig. II.

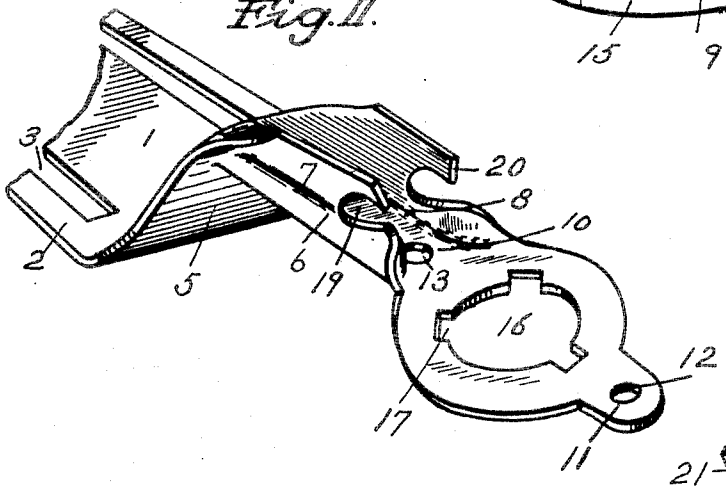
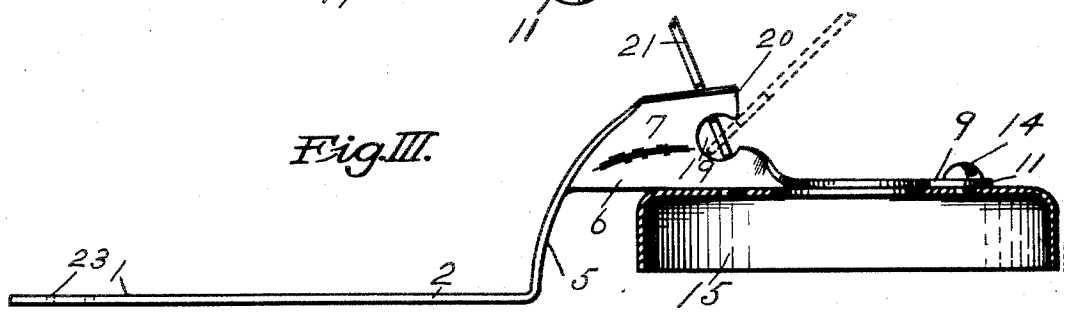


Fig. III.



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SUPPORT FOR CONDUIT OUTLET-BOXES.

1,098,581. Specification of Letters Patent. Patented June 2, 1914.

Application filed June 18, 1912. Serial No. 704,292.

To all whom it may concern:

Be it known that I, BENJAMIN P. McKINLEY, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented certain new and useful Improvements in Supports for Conduit Outlet-Boxes; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to a fastening or supporting device for conduit outlet boxes, and has for its object to provide a device of that character, which may be easily and quickly attached to the beams or girders of a building and which is adapted for supporting a lighting fixture and the ceiling box therefor. In accomplishing this object, I have provided the improved details of structure hereinafter described and illustrated in the accompanying drawings, wherein—

Figure I is a perspective view of a support constructed according to my invention, showing same applied to a girder. Fig. II is a perspective view of the support detached from the girder, showing a portion of the base broken away. Fig. III is a central longitudinal section of same, showing the conduit box, and a portion of the strap.

Referring more in detail to the parts:—1 designates my improved support for conduit or ceiling boxes, being preferably of strap metal construction, comprising a flat base plate 2, having longitudinal slots 3, through which screws, or nails, (not shown) may be projected to adjustably secure the same to the girder 4.

Adjacent one end, the base plate is provided with an offset 5, and the metal during the stamping operation is struck out to form the offset shank 6, having upwardly turned, outwardly flared sides 7, forming a channel 8 within the said shank. Disposed on one end of the plate, and forming a continuation of the offset shank 6, is the flat offset ear 9, the base 10 of the shank and the offset ear 9 extending in a plane parallel with, but above, the base portion of plate 2.

The ear 9 is provided with a lip 11, which is apertured at 12, and a similar aperture 13 is disposed in the base 10 of the shank channel, adjacent the point of intersection of the shank and ear, the said apertures being adapted for the reception of bolts 14 for securing the outlet box 15 to the ear portion.

The ear 8 has a central aperture 16 which is adapted for registration with an opening in the outlet box to receive a fixture stud (not shown) and is preferably provided with key stops 17. The box also has radial openings 18 for receiving pipes or conduits 19 through which wires are carried into the fixture.

Slots 19 are disposed on the opposite edges of the shank sides 7, being preferably formed when the offset shank and ear are stamped out of the blank, lips 20 being formed thereby which extend in a plane parallel with that of the shank base.

The slots 19 open outwardly toward the ear 8 and are adapted for receiving the lower end of the supporting hanger, comprising a strap 21. The strap member 21 is recessed adjacent its lower end to form the outwardly projecting lips 22, adapted for engagement with the lips 20 of the shank, when the strap end is positioned in the slots 19.

In the stamping operation, the offset shank is reinforced by the bending up of the metal to form the channeled portion, so that the flat ear which has the support of the fixture box, and the fixtures, is relieved of the greater part of the weight, which is taken up by the offset shank and supporting strap.

A plurality of apertures 23 are arranged on the strap member, through which the upper end may be secured to the girder by screws 24.

In using my improved support, the box 14 is fixed rigidly to the ear by the bolts 12 and 13 and the fixture stud is then projected through the central, box aperture and registering ear aperture, so that the stud tongues register with the slots 17 and the stud upon being turned is securely mounted in the box, by the engagement of the stud lips with the upper face of the ear 9. The support base is then fixed to the girder by screwing or nailing same thereto, the base being of such length and having slots whereby an adjustment will bring the cen-

tral aperture of the box directly over the position to be occupied by the fixture to be supported.

The lower end of the strap member 21 is inserted into the shank slots 19 by inclining the member outwardly at an angle so that the lips register with the slots, and then moving the strap member upward and backwardly toward the side of the girder, to which it is permanently secured. When the strap member is positioned, its lipped end extends across the channel of the shank, the lips engage the shank lip edges and the lower edge of the strap engage the lower edges of the slots.

With this construction, it is obvious that the reinforced offset shank, and the strap member, will support all of the weight which otherwise would have been encountered by the offset ear, namely, the weight of the fixture box and fixtures, the reinforced shank being especially adapted, when connected with the strap member, for supporting a very heavy load, which otherwise, in the ordinary construction of hangers, would have a tendency to twist or break the ear portion. With the parts in the position described, the fixture, or fixtures, may be hung and the ceiling finished in the ordinary manner.

Having thus described my invention, what I claim as new therein and desire to secure by Letters-Patent is:—

1. A support for conduit outlet boxes, comprising a body member adapted for attachment to a girder, and for carrying an outlet box, and a separate hanger adapted for attachment to a girder above said body member, and for removable connection with said member.

2. A support for conduit outlet boxes, comprising a slotted base plate adapted for adjustable attachment to a girder, and having an upwardly offset shank adapted for supporting an outlet box above the extended plane of said base, and a hanger adapted for attachment to a girder, and for connection with said shank.

3. A support for conduit outlet boxes, comprising a base plate adapted for attachment to the under edge of a girder and having an offset shank extending parallel therewith, and a hanger connected with the shank and extending rearwardly and upwardly therefrom, for the purpose set forth.

4. A support for conduit outlet boxes, comprising a plate having a base, an offset slotted shank and an ear on said shank, and a hanger adapted for attachment to a girder, and having lips adapted for connection with the slotted portion of the shank.

5. A support for conduit outlet boxes, comprising a plate having a base and offset shank, a hanger adapted for connection with a girder and having lips thereon, the offset shank being recessed to receive said hanger and having lips adapted for engagement with the hanger lips.

6. A support for conduit outlet boxes, comprising a plate having a base, an offset shank and an ear on said shank, the ear having an aperture adapted for registration with openings in an outlet box, the shanks having slots and lips, and a hanger adapted for connection with a girder and having a recessed end providing lips for location within the slots of the said offset shank.

7. A support for conduit outlet boxes, comprising a plate having base, offset shank and ear portions, and a hanger adapted for connection with a girder, said shank being slotted to form hanger lips, and the hanger provided with lips adapted for coöperation with the shank lips to brace the support.

8. A support for conduit outlet boxes, comprising an adjustable base plate, having an offset shank provided with an ear, and a hanger comprising a strap having its end recessed to form lips, the said shank being provided with slots adapted for receiving the lipped end of the strap, for supporting the ear.

9. A support for conduit outlet boxes, comprising a plate having a base portion, and offset shank and ear members extending in a plane parallel with, but above said base portion, a hanger adapted for connection with a girder and having a recessed lower end provided with lips, the said offset shank having slots adapted to receive said hanger end and provided with lips for engagement with the lips of said hanger.

10. A support for conduit outlet boxes, comprising a plate having an adjustable base portion, and reinforced offset shank and ear members extending in a plane parallel with but above, said base portion, the said shank having slots opening toward the ear member, and a hanger adapted for connection with a girder and having a recessed lower end adapted for position within the shank slots and provided with lips adapted for engagement with the lips of the said shank.

11. A support for conduit boxes, comprising a plate, having flat base and ear portions, a reinforced offset shank disposed between and connecting said base and ear portions, the said shank having slots therein opening toward said ear, and a hanger comprising a strap adapted for connection with a girder and having a recessed end provided with lips adapted for projection into the shank slots.

12. A support for conduit boxes, comprising a plate having a flat base provided with longitudinal slots, and a flat ear portion, a reinforced offset shank disposed between said base and ear and having slots provided therein, and a hanger adapted for connec-

tion with a girder and having one end recessed and provided with lips, adapted for projection into the shank slots.

13. A support for conduit boxes, comprising a plate having a slotted base, and offset and flat ear portions, the said plate at the offset portion being bent upwardly to form a channeled shank, having slots and lips formed in its opposite sides, a hanger adapted for connection with a girder and having a recessed lower end portion provided with lips, adapted for location within the shank slots, with the lips of the hanger and shank interlocking.

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

BENJAMIN P. McKINLEY.

Witnesses:

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LETA E. COATS.