April 24, 1928. 1,667,025

C. E. BOWERS

OUTLET BOX HANGER

Filed Oct. 21 1925

Fig. 1

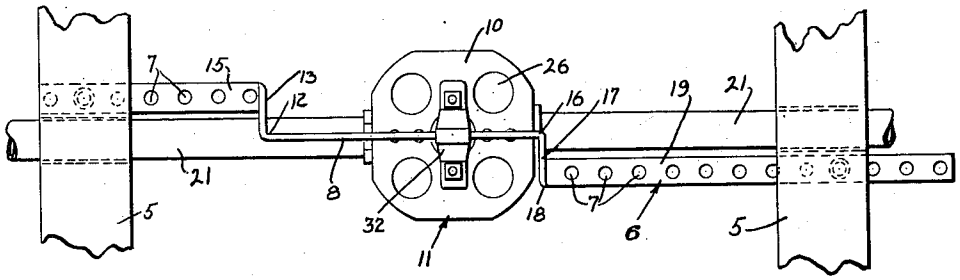


Fig. 2

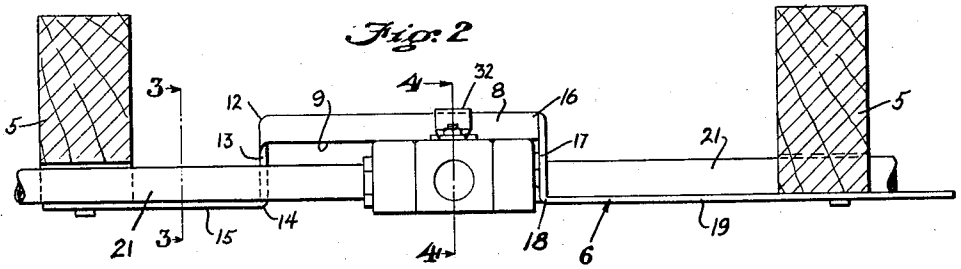


Fig. 3

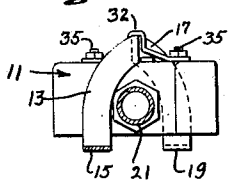


Fig. 4

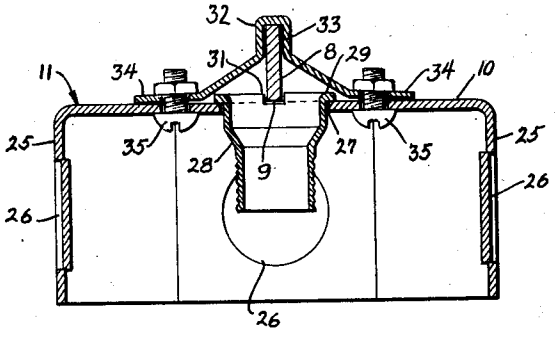
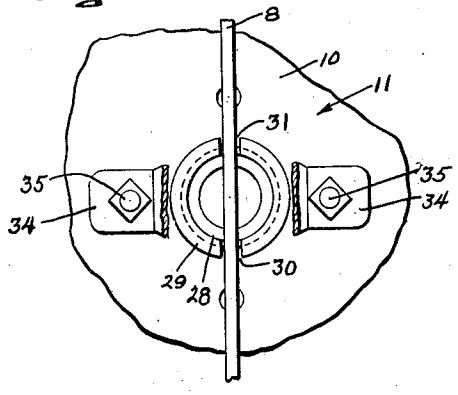


Fig. 5



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Patented Apr. 24, 1928. 1,667,025

UNITED STATES PATENT OFFICE.

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OUTLET-BOX HANGER.

Application filed October 21, 1925. Serial No. 63,874.

This invention relates to a new article of manufacture, and it comprises a strap iron supporting bar provided with means for adjustably supporting thereon outlet boxes and like structures.

Among the important objects of the invention are: first, to provide a simple means for adjustably securing in predetermined positions outlet boxes to the hanger bars; second, to provide a hanger bar so constructed that it will offer no interference to the entrance of conduit pipes to the knock-out openings of the outlet boxes; third, to provide a hanger bar for adjustably supporting lengthwise of the bar outlet boxes in such an operative position relative to the ceilings and walls of rooms that when the same are plastered the outer edge of the boxes will be flush with the finished plastered surface.

Briefly the invention consists of employing a flat metal bar bent intermediate its attaching ends to form a portion disposed at substantially right angles thereto, a clamping yoke being provided in connection with the outlet boxes for adjustably securing in rigid relation the boxes to the bar.

In the drawings attached hereto, and forming a part of the specification;

Fig. 1 is a plan view of a hanger bar secured between a building studding showing an outlet box secured in place thereon.

Fig. 2 is a side elevation of the above.

Fig. 3 is a transverse section through the hanger bar taken on line 3—3 of Fig. 2.

Fig. 4 is an enlarged transverse section through the hanger bar and outlet box secured thereto, taken on line 4—4 of Fig. 2.

Fig. 5 is an enlarged top plan of the bar and the outlet box, the clamping yoke being partially broken away to more clearly disclose the bar seating means.

In the drawings, 5—5 indicates ceiling joists, or studs of a building structure, that are generally spaced apart sixteen inches on centers and to which the hanger bars are secured. The hanger bar 6 preferably consists of a flat metal strap approximately five-eighths (5/8) of an inch wide and twenty inches long provided with a plurality of openings 7 in order that the bar may be secured by nails or other suitable securing means to the outer faces of the joists or studding 5, as clearly shown in Figs. 1 and 2 of the drawing.

The bar 6 is provided with an outlet box supporting portion 8 between the ends of the bar, and this portion is disposed so that its outer edge 9 will contact with the outer surface of the top wall 10 of the outlet box 11 when it is secured thereto as shown in the various views of the drawing. At the end 12 of the box supporting portion 8 the bar is bent as at 13 to one side of the axis of the supporting portion 8, and is again bent as at 14 to form an attaching portion 15, whose flat surface is disposed at substantially right angles to the supporting portion 8. The other end 16 of the supporting portion is bent as at 17 similarly to the bend 13 but in the reverse direction, and is again bent as at 18, to form an attaching portion 19 of a length greater than the portion 15, its flat surface being disposed in the same plane as said portion. By bending the hanger bar in the above described manner it will be apparent that the bar will offer no obstruction to the passage of the metal conduits 21 from either side and in line with the longitudinal axis of the bar into the outlet boxes through their knockout openings.

The outlet box here shown is of usual form consisting of a top wall 10, side walls 25 arranged in octagonal formation, the said walls being provided with the usual knockout openings 26. Top wall 10 in addition to the knockout openings 26 has a centrally disposed opening 27, in which is disposed a tubular nipple 28 exteriorly threaded on its lower end for the reception of a "hickey" connection (not shown). This nipple is designed to be used in connection with outlet boxes when lighting fixtures are connected thereto, and when no fixtures are used in connection with said boxes the nipples may be readily omitted. The upper end of the nipple has an external flange 29 for the purpose of maintaining the nipple in position in the opening 27, and this flange is provided with a pair of diametrically disposed notches 30, 31, for receiving the lower edge of the supporting portion 8 of the hanger bar when the box is secured in position. By providing notches 30, 31, in the flange of the nipple 28, the lower edge of the supporting portion 8 of the bar 6 will engage the same and prevent a turning movement of the nipple when a lighting fixture is secured thereto.

In order to maintain the box in clamped relation to the bar 6, a yoked clamping member 32 is provided. This member has a transversely disposed recess 33 formed intermediate its ends that fits over and engages

the upper edge of the bar 6, the ends 34 being secured to the top wall of the box by screws and nuts 35, the heads of the screws being disposed within the box in order that the workmen may readily manipulate the same when assembling the box in position on the bar.

By forming offset attaching ends on the hanger bar it will be apparent that the metal conduits may approach or extend from the outlet box in any desired direction.

The adjustment of the outlet boxes along the supporting portion 8 is readily accomplished by merely loosening the screws 35, the yoked clamping member rigidly securing the box against movement when the screws are tightened.

What I claim is:

A hanger bar for terminal boxes comprising a strap metal bar having a terminal box supporting portion intermediate its ends, said bar being bent downwardly at the ends of the supporting portion and to one side of the space that may be occupied by a conduit, the end of each bend being again bent to form attaching portions extending parallel to the supporting portion, the surfaces of said attaching portions being disposed at substantially right angles to the surface of the box supporting portion, whereby the attaching portions will be disposed out of alinement with the box supporting portion of the bar.

In witness that I claim the foregoing I have hereunto subscribed my name this 8th day of October, 1925.

CLAUDE E. BOWERS.