

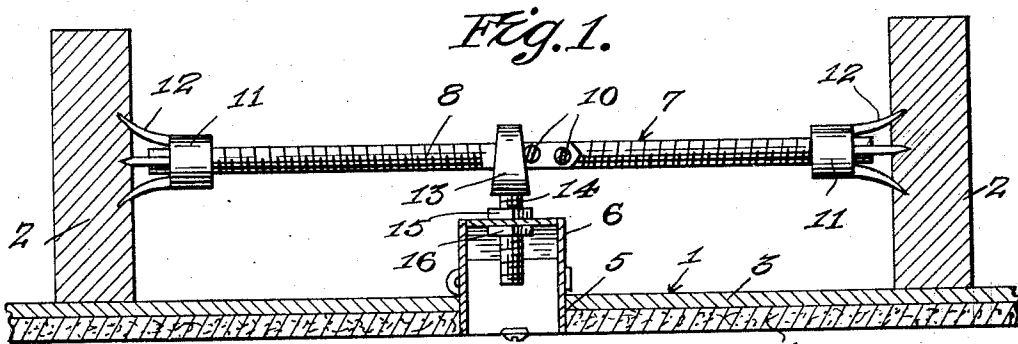
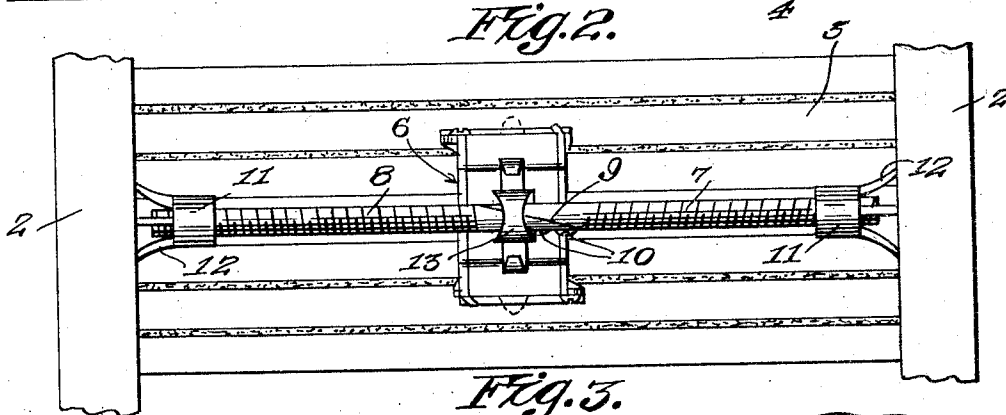
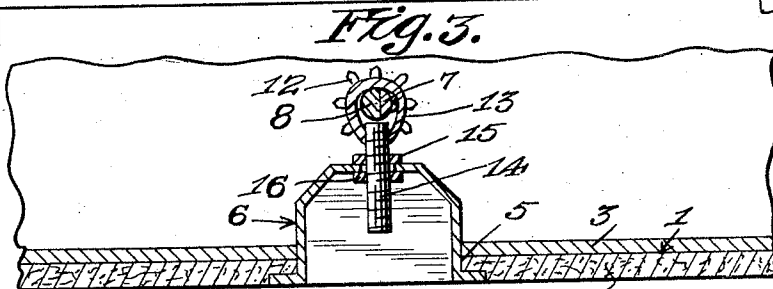
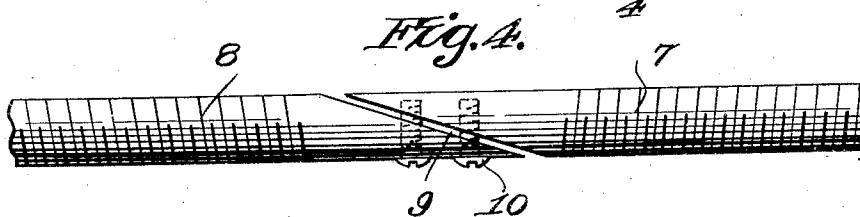
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F. J. NYBERG

1,892,286

SWITCH BOX HANGER

Filed Oct. 26, 1931



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SWITCH BOX HANGER

Application filed October 26, 1931. Serial No. 571,249.

This invention relates to hangers especially adapted for mounting in place outlet boxes, switch boxes and the like either during the construction of a wall or ceiling or after the completion thereof and has for the primary object, the provision of a device which will be easy and quick to install and will be entirely concealed from view when in use and which will firmly anchor the box in place without the employment of screws or like fasteners.

Another object of this invention is the provision of an adjustable anchoring medium to be installed between a pair of beams or rafters of a building by way of the box receiving opening formed in the wall or ceiling and capable of being folded and extended as desired so that it may be readily passed through the box receiving opening and is provided with means for adjustably and detachably securing a box thereto so that the box will be firmly held in the box receiving opening by the beams or rafters, thereby relieving the materials of the wall or ceiling from supporting the device as is customary in devices now in use.

With these and other objects in view, this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of my invention, reference is to be had to the following description and accompanying drawing, in which

Figure 1 is a longitudinal sectional view of a wall of a building with my invention applied to the beams or rafters thereof and supporting a box within an opening formed in the wall.

Figure 2 is a rear elevation illustrating the same.

Figure 3 is a transverse sectional view illustrating the connection between the box and the anchoring medium.

Figure 4 is a fragmentary plan view illustrating means of connecting the sections of the anchoring medium to each other.

Referring in detail to the drawing, the numeral 1 indicates a wall or ceiling construction including supporting beams or rafters 2 to which the lathing 3 or the like and the usual finishing material 4 such as plaster, wallboard or the like are secured. To mount a switch box or outlet box in the wall or ceiling 1, an opening 5 is formed in the material 4 in the lathing 3 of a size to accommodate the box 6.

Prior to positioning the box 6 in the opening, an anchoring element 7 is passed through the opening 5 and brought into engagement with the rafters or beams 2 as shown in Figures 1 and 2. The anchoring element 7 includes a sectional rod 8, the adjacent ends of which are bevelled in opposite directions as shown at 9 and arranged in overlapped relation. The bevelled ends of the rods 7 are detachably secured by bolts or like fasteners 10 so that said rod will be held substantially rigid and by removing one of the fasteners 10, the sections of the rod then may be swung relative to each other for the purpose of folding the rod to facilitate the insertion thereof through the opening 5.

One of the sections of the rod 7 is provided with right hand screw threads while the other section is provided with left hand screw threads and said sections have threaded thereto heads 11 each provided with a plurality of prongs 12 adapted to bite into the beams or rafters. After the rod 7 with the heads 11 thereon has been passed through the opening 5 it is moved into an extended position that is the sections arranged in endwise relation to each other and the removed fastener 10 is replaced to secure the sections in rigid relation. The prongs of one of the heads is placed in engagement with one of the beams or rafters and the rod 7 is rotated in a proper direction causing the prongs of both heads to embed themselves in the beams or rafters thereby firmly anchoring the rod in place so that it traverses the opening 5.

Mounted upon the rod 7 is a sleeve 13 provided with a screw threaded opening for the purpose of receiving one end of a screw threaded stud 14. The stud 14 is passed through a slot in the inner wall of the box. Prior to passing the stud 14 through the slot of the box, a nut 15 is threaded thereon and

after the placing of the box in position, a nut 16 is threaded onto the stud 14 and against the inner wall of the box cooperating with the nut 15 in adjustably and firmly attaching
 5 the box to the stud, and due to the latter being threaded to the sleeve 13, the box may be adjusted within the opening 5 and firmly held in position.

While I have shown and described the preferred embodiment of my invention, it will be understood that minor changes in construction, combination and arrangement of parts may be made without departing from the spirit and scope of my invention, as
 15 claimed.

Having thus described my invention, what I claim is:

1. A hanger for boxes comprising a foldable anchoring element, means adjustably
 20 carried by said element for biting into opposite beams of a wall for supporting said element across an opening in the wall, and adjustable means carried by said element for securing a box in the opening.

25 2. A hanger for boxes comprising a foldable anchoring element having right and left hand screw threads, heads threaded to said element, prongs on said heads to bite into opposite beams of a wall for supporting
 30 the element across an opening in the wall, and adjustable means carried by said element for securing a box in the opening of the wall.

3. A hanger for boxes comprising a sectional anchoring rod, right and left hand
 35 screw threads on said rod, fastening means between the sections of said rod to permit the sections to be moved relative to each other and to be fixed relative to each other, heads threaded to said rods, prongs carried by said
 40 heads to bite into opposing beams in a wall having an opening, adjustable means carried by said rod for attaching a box thereto and supporting said box within the opening in the wall.

45 4. A hanger for boxes comprising an anchoring rod having right and left hand screw threads and including sections provided with their adjacent ends bevelled and overlapped fastening means for holding the
 50 sections rigid relative to each other and adapted to permit one section to be moved relative to the other, beam engaging heads threaded to said rod for supporting the rod across an opening in a wall, and adjustable
 55 means carried by the rod for attaching a box thereto within the opening.

5. A hanger for boxes comprising an anchoring rod having right and left hand screw threads and including sections provided with their adjacent ends bevelled and
 60 overlapped, fastening means for holding the sections rigid relative to each other and adapted to permit one section to be moved relative to the other, beam engaging heads
 65 threaded to said rod for supporting the rod

across an opening in a wall, a sleeve slidable on said rod, a stud threaded to said sleeve and extending through a slot in a box located within the opening of a wall, and nuts threaded to said stud and engaging opposite faces
 70 of a wall of the box.

In testimony whereof I affix my signature.
 FILMORE J. NYBERG.

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