

No. 713,386.

Patented Nov. 11, 1902.

H. D. BETTS & R. McK. THOMAS.

INTERIOR CONDUIT OUTLET BOX.

(Application filed June 26, 1902.)

(No Model.)

Fig. 1

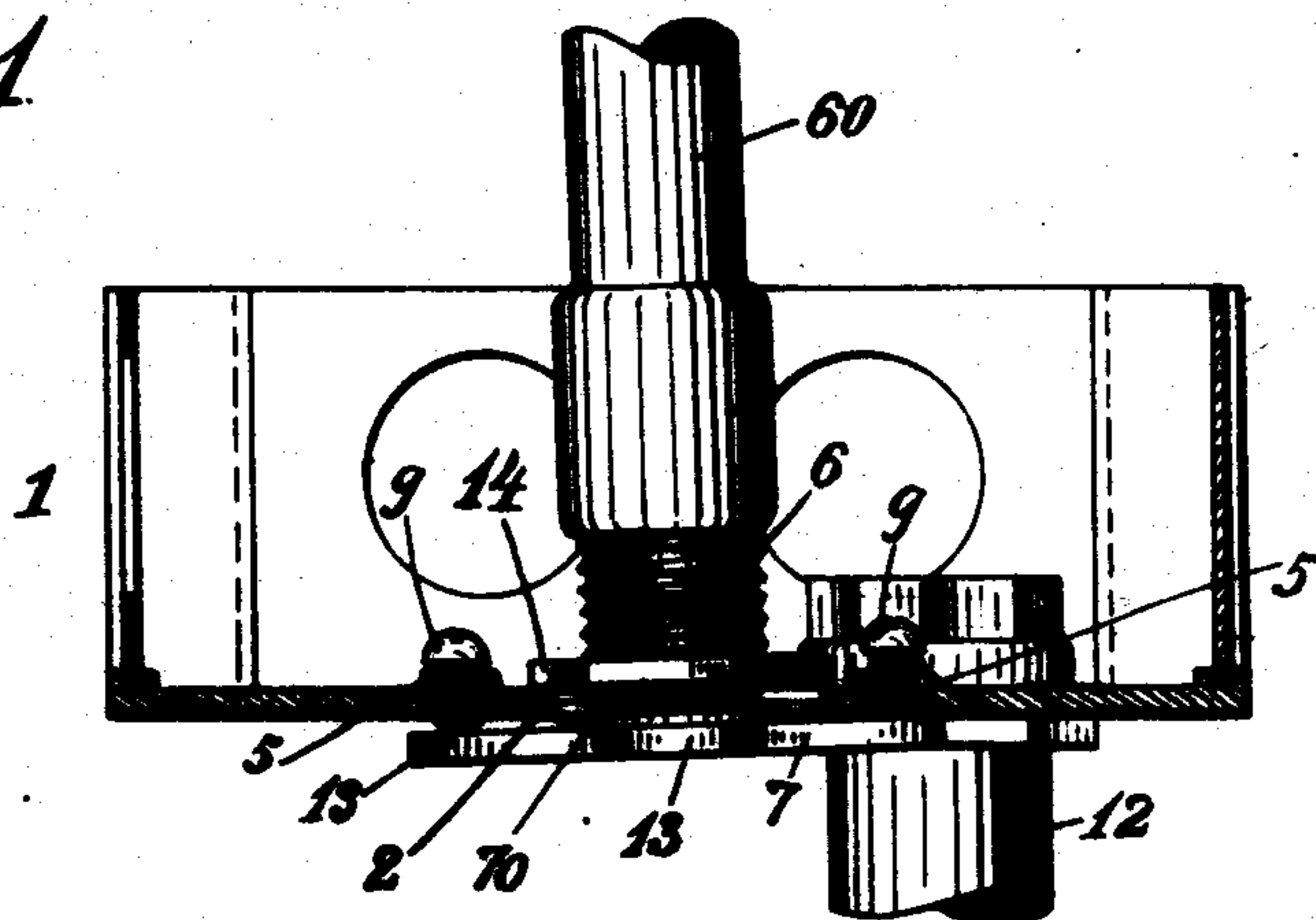


Fig. 2

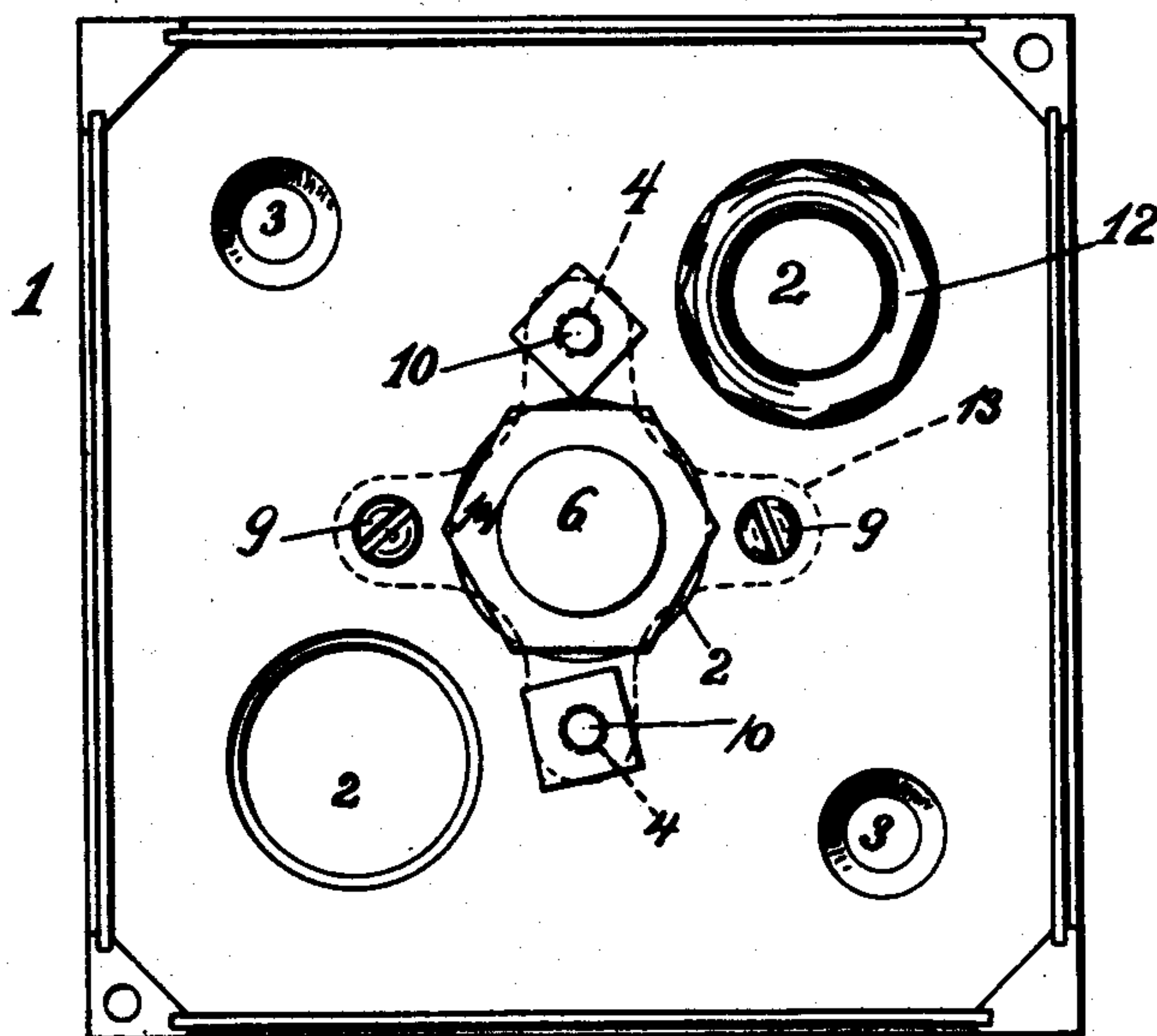
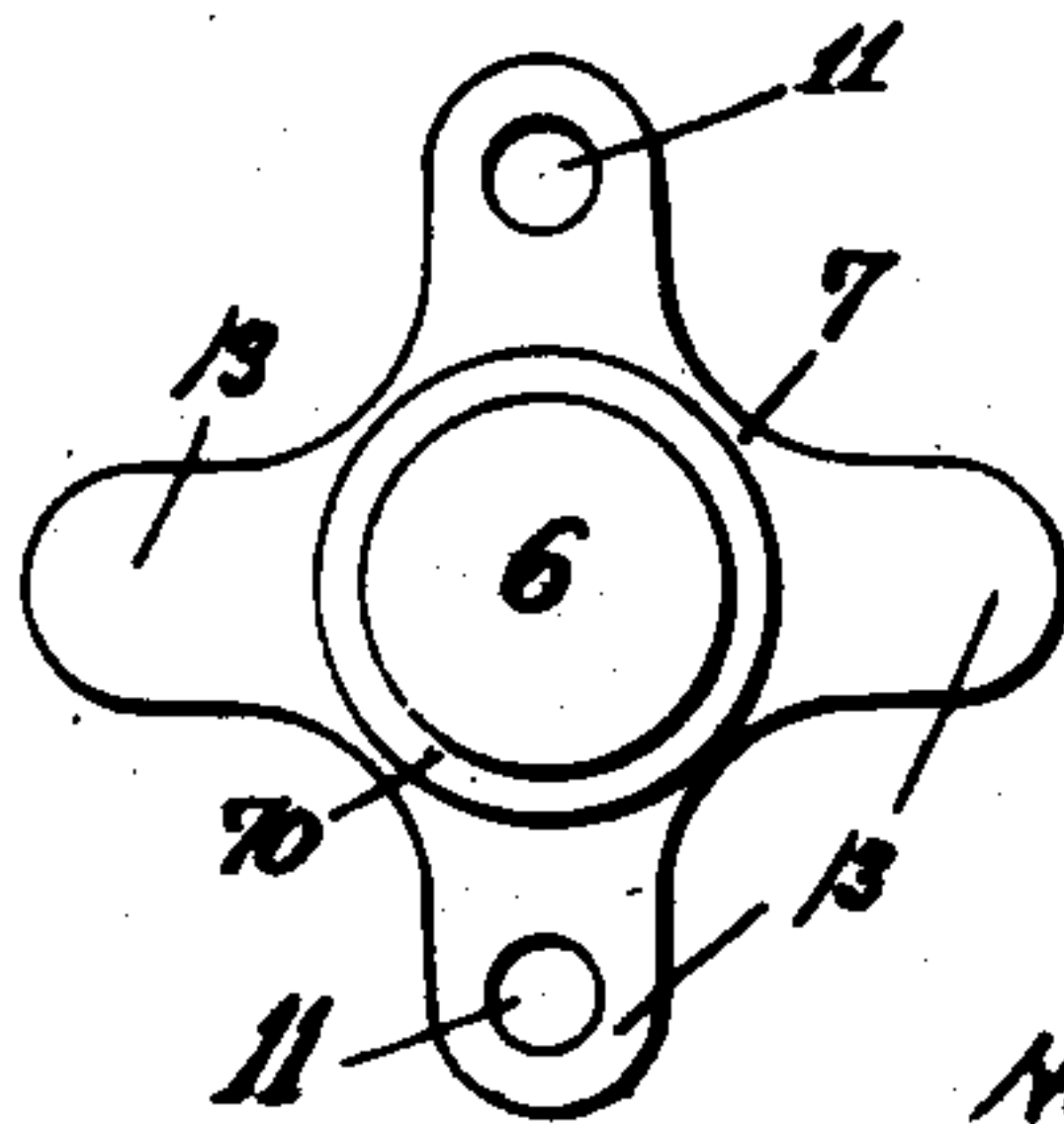


Fig. 3



Witnesses
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UNITED STATES PATENT OFFICE.

HOBART D. BETTS, OF ENGLEWOOD, AND ROBERT McKEAN THOMAS, OF
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INTERIOR-CONDUIT OUTLET-BOX.

SPECIFICATION forming part of Letters Patent No. 713,386, dated November 11, 1902.

Application filed June 25, 1902. Serial No. 113,071. (No model.)

To all whom it may concern:

Be it known that we, HOBART D. BETTS, a resident of Englewood, and ROBERT McKEAN THOMAS, a resident of Elizabeth, New Jersey, have invented certain Improvements in Interior-Conduit Outlet-Boxes, of which the following description, in connection with the accompanying drawings, is a specification, like figures on the drawings designating like
10 parts.

This invention relates to interior-conduit outlet-boxes and fixture-studs therefor, and has for its object the provision of a fixture-stud which may be attached readily to existing types of boxes, being of special utility when applied to ceiling-boxes, and having novel features of adjustability, it being understood that while we consider our improvements especially advantageous for the purposes illustrated we nevertheless contemplate the utilization of them in any field for which they may be adapted by their nature.

The various features of our invention will be illustrated and described fully in the accompanying drawings and specification, and set forth in the claims.

In the drawings, Figure 1 illustrates in vertical section an interior electric conduit outlet-box in the construction of which our invention has been embodied. Fig. 2 is a plan view of said box with the attachment in place, and Fig. 3 is a plan view of the fixture-stud shown in Figs. 1 and 2.

In the embodiment of our invention, selected as a convenient form for illustration and description to enable a ready and complete understanding of our improvements, the part designated by the reference-numeral 1 is an interior-conduit member, commonly known as an "outlet-box," of a familiar type, the base member only being shown. Such boxes usually have a number of holes through the bottom to permit the entrance of the pipe or conduit, and in the instance illustrated three
45 such holes 2 are shown, arranged diagonally across the box, one being in the middle, and it is also usual to provide holes, through which screws may pass to secure the box and also to receive the attaching devices for the ordinary fixture-stud, and we have shown a number of such holes, the reference-numeral

3 designating a pair near the corners of the box, 4 a pair near the central aperture, and 5 a pair similar, but separated each about ninety degrees from the last-mentioned pair. 55 The pair 5 of holes is shown as formed in bosses for the sake of affording an extended bearing if it is desired to thread the holes for the reception of screws, and similar bosses may be provided, of course, in connection with 60 any of the other attaching-holes, or any convenient construction or number of such holes may be provided, four holes adjacent the central aperture being, perhaps, the most convenient number to afford a wide range of adjustment, as will be described hereinafter.

The part designated by the reference-numeral 6 is a threaded post, stud, or receptacle, commonly known as a "fixture-stud," of a size suitable to pass through the central aperture of the box-bottom and having a head 7 to lie adjacent the outside of the box-bottom (so that the strain of the fixture 60 on the stud cannot pull the latter away from the box) and preferably a centering-shoulder 70. To 75 provide for adjustment of the stud in order to regulate its axial angular relation to the box, we have shown means intermediate the box-bottom and the head of the stud, taking in the instance illustrated the form of screws 80 9, held in the attaching-holes 5 adjacent the central aperture in such position that when driven through the bottom they will bear against the head of the stud and bolts 10 in the holes 4, the bolts passing through the 85 head of the stud in holes 11, and by tightening up these screws and bolts, respectively, to different depths a universal axial adjustment of the stud can be secured. For the sake of lightness and neat appearance and to 90 clear the conduit-pipes, of which one is shown at 12, the head may be formed with four or any other suitable number of arms 13 to lie opposite the respective holes, the arms serving to engage the conduit upon any tendency 95 of the fixture toward rotation in case only a check-nut 14 is used as retaining means on the stud.

It is obvious that either a check-nut or a single bolt will serve to retain the stud in 100 place firmly; also, that set-screws and bolts or other attaching means may be used in other

combinations than those illustrated, and the manner of operation of the stud will be understood readily by those skilled in the art, and it will be understood that we do not limit ourselves to the exact construction illustrated and described, nor, in general, otherwise than as set forth in the claims read in connection with this specification.

Having thus fully described and illustrated our invention, what we claim, and desire to secure by Letters Patent, is—

1. The combination with an outlet-box or similar electrical conduit member, having an apertured bottom; of a threaded stud or receptacle to lie in said bottom aperture, said stud having a flange, head or the like upon the portion outside said box; and means intermediate said box-bottom and said head to effect angular axial adjustment of said stud with respect to said box, substantially as described.

2. The combination with an outlet-box or similar electrical conduit member, having an aperture; of an adjustable fixture-stud comprising a threaded receptacle portion to project inwardly through said aperture, an outer head or flange to prevent complete traversal of said aperture; and a set-screw intermediate said box-bottom and head to engage said head to tilt the same and adjust the angular axial relation of said stud to said box, said set-screw presenting an operating portion for actuation from within said box.

3. The combination with an outlet-box or similar electrical conduit member having in its base a conduit-aperture and a plurality of

adjacent holes for setting devices; of a fixture-stud having a threaded stud, post or receptacle portion to extend through said aperture, and a head, flange, or the like to lie outside said box opposite said holes; and a plurality of setting devices for said holes to engage, and regulate the angular axial position of, said fixture-stud with relation to said base.

4. The combination with an outlet-box or similar conduit member, having an apertured bottom; of an adjustable fixture-stud having a threaded stud or receptacle portion to extend through one of said apertures, and arms to lie outside said bottom near others of said apertures; and a plurality of set-screws and draw-bolts, intermediate said bottom and the respective arms to adjust said stud.

5. An attachment for outlet-boxes or similar electrical conduit members, comprising a fixture-stud having a threaded post, stud or receptacle portion and a head, flange or the like, and means to secure said attachment to said conduit member, with said stud extending through an aperture in said member and said head outside and adjacent the bottom of said conduit member, substantially as described.

Signed at New York, in the county of New York and State of New York, this 24th day of June, A. D. 1902.

HOBART D. BETTS.
ROBERT McKEAN THOMAS.

Witnesses:

H. B. GLAESER,
F. E. BALLARD.