

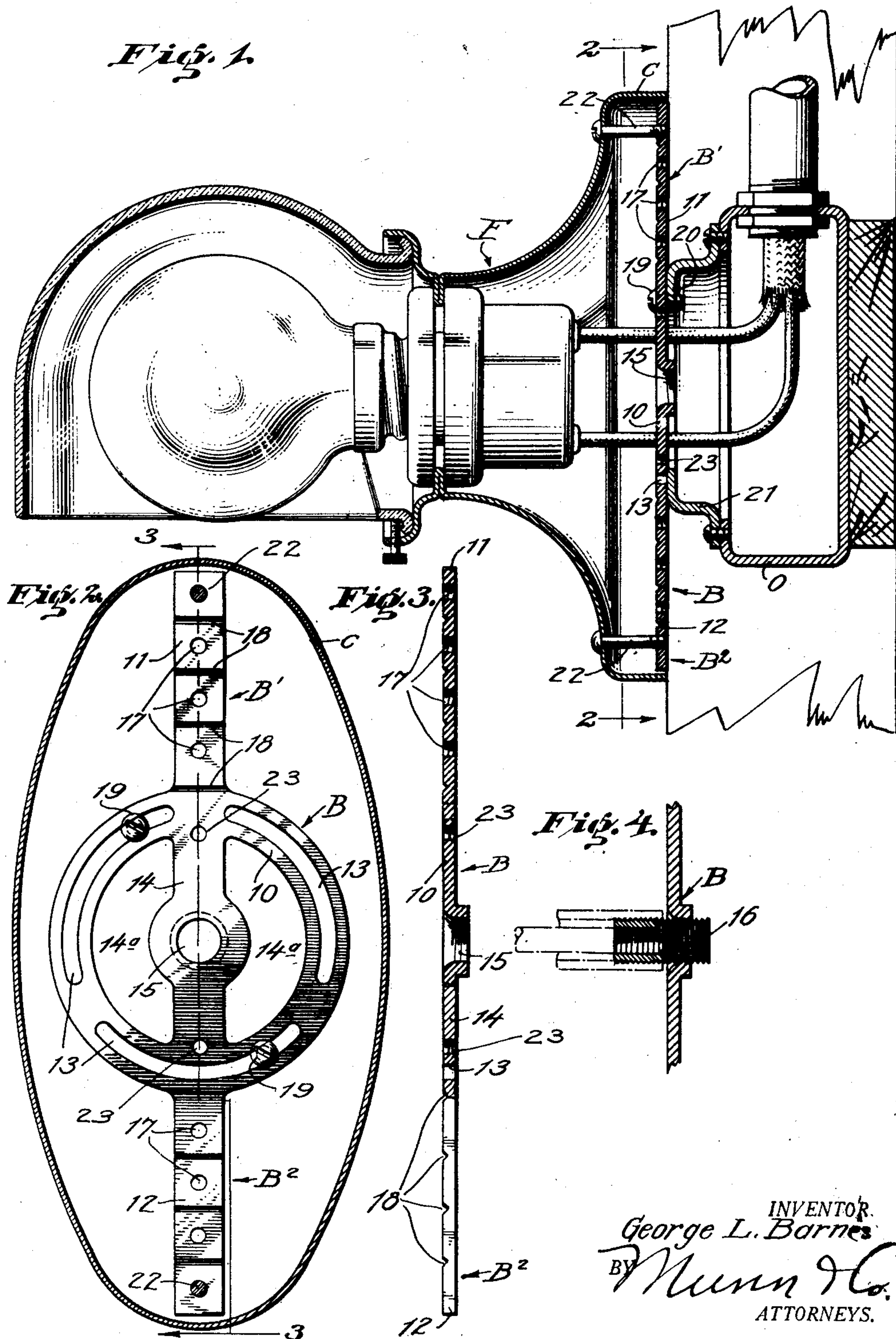
Oct. 7, 1930.

G. L. BARNES

1,777,598

FIXTURE HANGER

Filed Oct. 10, 1928





## UNITED STATES PATENT OFFICE

GEORGE L. BARNES, OF LOS ANGELES, CALIFORNIA

## FIXTURE HANGER

Application filed October 10, 1928. Serial No. 311,575.

My invention relates generally to electric lighting fixtures and more particularly to hangers therefor, and it is a purpose of my invention to provide a hanger of simple, substantial and inexpensive construction by which a fixture can be supported from an outlet box in a manner to permit such adjustment of the fixture that it can be properly positioned with respect to a perpendicular in the case of a wall fixture, or positioned to display its contour or surface ornamentation to the best advantage or at the most desirable angle in the case of a ceiling fixture.

It is a further purpose of my invention to provide a fixture hanger capable of use in supporting fixtures having bases or canopies of various styles and sizes so that the hanger is rendered capable of universal application and eliminates the necessity of providing many different forms of hangers to accommodate the many different varieties of fixture canopies and bases.

I will describe only one form of fixture hanger embodying my invention and will then point out the novel features thereof in claims.

In the accompanying drawing

Fig. 1 is a vertical sectional view showing one form of fixture hanger embodying my invention applied to an outlet box and to a fixture of the wall type;

Fig. 2 is a plan view of the hanger;

Fig. 3 is a sectional view of the hanger taken on the line 3—3 of Fig. 2; and

Fig. 4 is a fragmentary sectional view of a portion of the hanger with a conventional adapter nipple of the character employed to secure certain types of fixtures to the hanger.

Referring specifically to the drawing in which similar reference characters designate similar parts in each of the several views, my invention in its present embodiment is preferably constructed of sheet metal of suitable gage to provide a body portion B adapted to be secured to an outlet box O, and other portions B' and B<sup>2</sup> to which the base or canopy C of a fixture F is adapted to be secured. The body portion B in the present instance comprises an annulus 10, while the portions

B' and B<sup>2</sup> are in the form of arms 11 and 12 respectively, projecting radially outward from the annulus at diametrically opposed points. The annulus is provided with slots 13 through which fastening members are adapted to be extended, and in the present instance three slots are shown and are of arcuate contour and arranged in a single circular series concentric with the annulus. Spanning the annulus diametrically is a web 14 having a threaded opening 15 therein and axially disposed with respect to the annulus. The opening 15 is adapted to threadedly receive a length of tubing (not shown) or an adapter nipple 16 (Fig. 4) in securing certain styles of fixtures to the hanger. The openings 14<sup>a</sup> formed in the annulus at opposite sides of the web 14 provide for the passage of current conductors from the outlet box to the fixture supported by the hanger.

Each of the arms 11 and 12 is provided at predetermined spaced intervals along its length with a series of threaded openings 17, any of which are adapted to receive fastening members for securing the base or canopy of a fixture to the hanger. Intermediate the openings 17 the arms are preferably scored transversely as indicated at 18 to facilitate breaking off of more or less portions of the arms to vary the overall length of the hanger and thus render the latter capable of being received in bases or canopies of different dimensions in plan.

In the use of the hanger above described, it is secured to the outlet box O by headed screws 19 which are first extended through the slots 13 and then threaded into lugs 20 formed on a conventional plaster ring 21 with which the outlet box shown is provided. Before the screws 19 are tightened, the hanger is adjusted circumferentially relative to the outlet box by rotating the hanger bodily upon the screws 19 until the position of the arms 11 and 12 is such that when the canopy or base C of the fixture is secured to the arms, the fixture will be properly positioned on the wall with respect to the perpendicular, or in the case of a ceiling fixture its contour or surface ornamentation displayed to the best advantage or at the most desirable angle.



Screws 22 are now passed through openings provided in the base or canopy of the fixture, and are threaded into the particular openings 17 of the arms 11 and 12 which register with the screw receiving openings of the base or canopy, it being understood that the spacing of the latter openings is standard for all fixtures having bases or canopies of a particular size, and that the distances between the openings 17 of one arm 11 and the corresponding openings in the other arm 12 are in agreement with the spacings of the screw receiving openings of the various sizes of standard fixture canopies and bases.

In the event that the fixture to be hung is provided with a canopy or base other than the largest standard size, the required amount necessary to reduce the overall length of the hanger to a length which will be received in the canopy or base as shown in Fig. 1, is removed from the arms 11 and 12 by breaking off portions of the latter at the proper score lines 18 prior to securing the hanger to the outlet box.

It will be manifest that by the provision of the arcuate slots 13 in the annulus 10, sufficient circumferential adjustment of the hanger can be effected to correctly position the fixture irrespective of the position of the lugs 20 on the plaster ring 21 of the outlet box, and that by the simple expedient of removing the proper portions of the arms 11 and 12 the hanger is rendered adaptable to canopies and bases of different standard sizes.

Furthermore, by the provision of the web 14 with its threaded opening 15, the hanger can be employed to secure a fixture to an outlet box, in the event that the fixture is of the type in which its base is provided with a single centrally disposed screw receiving opening rather than two openings adjacent its marginal edge as is the particular type of fixture illustrated. In this case a short length of tubing (not shown) is threaded into the opening 15, and is of sufficient length to extend through the screw receiving opening of the fixture base to receive a nut (not shown) for clamping the fixture base to the hanger, or the adapter nipple 16 is employed and receives a headed stud (not shown) to clamp the fixture base to the hanger.

It will be noted that the web 14 is provided with a pair of threaded openings 23 adapted to receive fastening members for securing to the hanger a cleat receptacle (not shown) which is employed in conjunction with certain types of fixture canopies and bases.

Although I have herein shown and described only one form of fixture hanger embodying my invention, it is to be understood that various changes and modifications may be made herein without departing from the spirit of the invention and the spirit and scope of the appended claims.

I claim:

1. A fixture hanger comprising an annulus having arms projecting outwardly therefrom at diametrically opposed points and provided with series of threaded openings, through any of which threaded fastening members are adapted to be extended to fixedly secure a fixture to the hanger, the annulus having arcuate slots through which fastening members are adapted to be extended to secure the hanger to an outlet box yet rendering the hanger capable of rotative adjustment relative to the outlet box to vary the disposition of the fixture relative to the outlet box, and a web spanning the annulus, providing intervening openings for the passage of conductors from the outlet box to the fixture, the web having a threaded opening adapted to receive a nipple for the support of a fixture from the latter.

2. A fixture hanger comprising an annulus having arcuate slots, arms projecting outwardly from the annulus and having series of threaded openings at spaced intervals along their lengths, and a web spanning the annulus and having a threaded opening therein.

3. A hanger for fixtures having an annulus, arms projecting from the annulus and to which a fixture is adapted to be secured, the annulus having curved slots through which fastening members are adapted to be extended to secure the hanger to an outlet box yet rendering the hanger circumferentially adjustable relative to the outlet box, the arms being provided with series of threaded openings at intervals along their lengths, any of which are adapted to receive fastening members for securing the fixture to the arms, the arms being weakened substantially transversely between adjacent openings to facilitate breaking off of more or less portions of the arms to accommodate the overall length of the hanger within fixture canopies and bases of different dimensions, a web spanning the annulus and having a central threaded opening adapted to receive a nipple for the support of a fixture from the latter, and having threaded openings at opposite sides of the nipple receiving opening adapted to receive fastening members for securing a cleat receptacle to the hanger.

Signed at Los Angeles, in the county of Los Angeles, and State of California this 26th day of September, A. D. 1928.

GEORGE L. BARNES.