

UNITED STATES PATENT OFFICE

2,305,015

ADJUSTABLE SUPPORT FOR LAMP HOUSINGS

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Application April 24, 1941, Serial No. 390,117

5 Claims. (Cl. 240—78)

An object of this invention is to disclose an adjustable support which is simple, inexpensive and suitable for a wide variety of situations. It has been used in connection with lamp housings for ceiling illumination and is therefore illustrated and described in that connection.

Further and other objects and advantages will be apparent from the specification and claims, and from the accompanying drawing which illustrates what is now considered the preferred embodiment of the invention.

Figure 1 is a sectional view of a lamp housing set in a ceiling opening and supported in accordance with my invention; and

Fig. 2 is a view on line 2—2 of Fig. 1.

In the drawing, 10 is a ceiling having upper and lower surfaces 12 and 14, respectively, and provided with an opening framed by angle irons 16, 18, in which is supported a housing containing a lamp 20.

The housing has walls 22, a top 24, and a bottom in the form of a plate 26 overlapping the lower surface 14 of the ceiling. Plate 26 has an opening 28—28 and may support a glass sheet 30 simply overlapping opening 28 on all sides thereof as shown, or the glass may be hinged in position. The color and other characteristics of the glass are, of course, suitable for the intended purpose. A reflector 32 directs the light from lamp 20 downwardly through glass 30 and opening 28.

The housing is supported by a suitable number of levers 34 passing through openings 36 in walls 22. The outer ends of arms 34 rest on angle iron 16 and the inner ends are adjustably carried by the heads 38 of screws 40 which pass through clearance holes 42 in levers 34 and are threaded into the upper arm of angle brackets 44, the vertical arms of which are fast to wall 22 and rest on levers 34.

To adjust the position of the housing it is only necessary to move glass 30 aside in order to reach and turn screws 40 with a screw driver and thereby adjust the housing to its desired position, after which the glass is restored to its position and the installation is ready for service.

In operative position of the housing the ceiling opening is closed by plate 26 and no screws or adjusting devices are visible, but the concealed adjusting screws may be instantly reached when desired, as above described.

Levers 34 draw plate 26 tightly against surface 14 and the fixture is therefore firmly clamped in its operative position.

It is to be understood that the invention is not limited to the specific embodiment herein illustrated and described, but may be used in other ways without departure from its spirit as defined by the following claims.

I claim:

1. A lamp housing, in combination with means for supporting said housing in an opening in a ceiling, said means comprising levers extending through the walls of said housing and resting on said ceiling, each of said levers being a bar used to exert a force at one point of its length, by application of a force at a second, and turning at a third point which is its fulcrum, and means securing said levers to said housing after the latter has been completely mounted in the ceiling.

2. A lamp housing, in combination with means for supporting said housing in an opening in a ceiling, said means comprising levers extending through the walls of said housing and resting on said ceiling, said levers being adjustable at their ends within said housing, each of said levers being a bar used to exert a force at one point of its length, by application of a force at a second, and turning at a third point which is its fulcrum, and means securing said levers to said housing after the latter has been completely mounted in the ceiling.

3. A lamp housing, means for supporting said housing in an opening in a ceiling, in combination with means comprising levers extending through the walls of said housing and resting on said ceiling, each of said levers being a bar used to exert a force at one point of its length, by application of a force at a second, and turning at a third point which is its fulcrum and each of said levers being adjustable by a screw engaging its inner end and threaded into a support fixed in said housing.

4. A lamp housing having an outwardly extending bottom plate, in combination with means for supporting said housing in an opening in a ceiling, said supporting means comprising levers operative above said ceiling for clamping said bottom plate firmly against the lower surface of said ceiling, each of said levers being a bar used to exert a force at one point of its length, by application of a force at a second, and turning at a third point which is its fulcrum, and means securing said levers to said housing after the latter has been completely mounted in the ceiling.

5. A lamp housing, means for supporting said housing in an opening in a ceiling, in combination with means comprising levers extending through the walls of said housing and resting on said ceiling, each of said levers being adjustable by a screw engaging its inner end and threaded into an angle bracket fixed to an inner wall of said housing, the lower end of said bracket being adjacent the wall opening provided for said lever, whereby the lower end of said bracket may serve as a pivot about which said lever is adjustable by said adjusting means.

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