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G. J. FADELL

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ELECTRIC FIXTURE SUPPORT

Filed Sept. 26, 1927

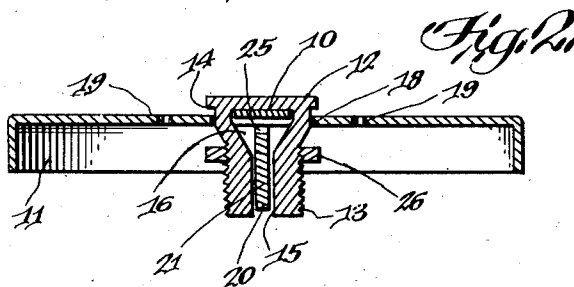
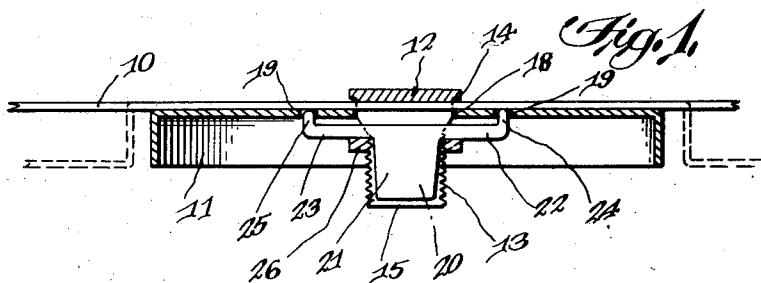
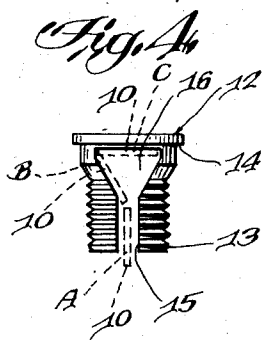
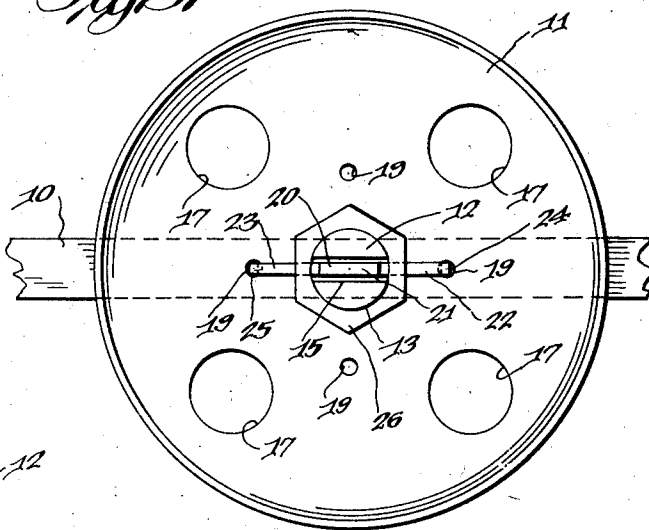


Fig. 3.



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ELECTRIC-FIXTURE SUPPORT.

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This invention relates to certain novel improvements in electric fixture supports and consists of the novel combination and arrangement of parts hereinafter set forth.

5 The salient object of my invention is to provide a device of the foregoing character which will include an arrangement that will facilitate the installation of the device.

10 Another object of the invention is to provide such a device which will be universal in use, that is, one which may be employed in connection with various types of supporting devices.

15 A further object of the invention is to provide a support for electric fixtures which will prevent turning of the outlet box.

Other objects will appear hereinafter.

20 The invention consists in the novel combination and arrangement of parts to be hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings, showing the preferred form of construction and in which:

25 Fig. 1 is a longitudinal sectional view of one embodiment of my invention as used in connection with a so-called hanger strap;

Fig. 2 is a view similar to Fig. 1 looking in at the right hand end thereof;

30 Fig. 3 is an elevational view of the embodiment of my invention illustrated in Fig. 1 looking in from the lower side thereof; and

Fig. 4 is an elevational view of the supporting stud employed in my invention.

35 Referring to the drawings wherein the preferred embodiment of my invention is illustrated, it may be seen that in the present instance my device is mounted on a hanger strap 10 which is supported in the usual manner from the joist of a structure. As illustrated in dotted lines in Fig. 1 the hanger strap 10 may be substantially U-shaped if so desired and it is to be understood that the particular formation of the hanger strap forms no part of my invention. The usual outlet box 11 is provided which is adapted to be supported from the hanger strap 10 in the following manner.

40 In Fig. 4 a plug 12 is illustrated which includes a threaded end portion 13 and is arranged at the upper end thereof so as to provide a shoulder 14. A slot 15 extends through the threaded end portion 13 and terminates in a substantially V-shaped opening 16. The upper side of the opening 16 is

arranged so as to be flat and of a width slightly greater than the strap 10. The manner of inserting the plug 12 over the strap 10 is illustrated in Fig. 4. First the plug is arranged in relation to the strap 10 as illustrated by the position A; then the plug is moved so as to position the strap 10 in substantially the position B and then the plug is moved so the strap assumes the position C.

45 The outlet box 11 is adapted to be of standard construction and includes knock-out holes 17 which term is understood in the art to mean openings which are closed by plugs that are easily removable. The holes 17 are arranged in standard outlet boxes as best illustrated in Fig. 3. A central opening 18 is provided in the outlet boxes and arranged around the opening 18 in the manner best illustrated in Fig. 3 are relatively small openings 19. A retaining yoke 20 is provided which includes a downwardly projecting tongue 21 and outwardly extending arms 22 and 23 which terminate in upwardly extending ears 24 and 25. The distance between the ears 24 and 25 is adapted to be equal to the distance between diametrically opposed holes 19.

50 The plug 12 is positioned on the strap 10 in the manner described and then the outlet box 11 is moved into a position such that the plug 12 protrudes through the opening 18. Then the retaining yoke 21 is moved into a position such that the tongue 21 thereof is retained in the slot 15 and such that the ears 24 and 25 will extend through diametrically opposed openings 19. A retaining nut 26 is then run up over the screw threaded portion 13 of the plug 12 so as to engage the arms 22 and 23 of the retaining yoke 20 so as to retain it in the described position and thus the outlet box 11 is securely mounted in position and is held against rotary movement. The fixture will then be mounted on the threaded end 13 of the plug 12.

55 It is to be understood that suitable conduits will terminate in the outlet box 11 as is well understood in the art.

60 When the structure is used in connection with an outlet which is permanently mounted as in a concrete building, the hanger strap 10 is not employed. Under these conditions the plug 12 is mounted in the opening 18 in such a manner that the shoulder 14 will abut the edges of said opening. The retaining yoke 20 is mounted in the manner heretofore

described and thus the plug 12 is held against rotation and therefore the mounting of the fixture is expediated.

While I have illustrated and described the preferred form of construction for carrying my invention into effect, this is capable of variation and modification, without departing from the spirit of the invention. I, therefore, do not wish to be limited to the precise details of construction set forth, but desire to avail myself of such variations and modifications as come within the scope of the appended claims.

Having thus described my invention what I claim as new and desire to protect by Letters Patent is:

1. In combination with an outlet box having a central opening therein and a plurality of openings disposed around said central opening in diametrical relation, a plug adapted to extend through said central opening, having a slot formed therein, and means for

securing said plug including a member having a portion adapted to be disposed in said slot and having arms which terminate in ears adapted to be disposed in said diametrically disposed openings. 25

2. In combination with an outlet box having a central opening therein and a plurality of openings disposed around said central opening in diametrical relation, a plug adapted to extend through said central opening having a screw threaded end portion and having a slot formed therein and means for securing said plug including a member having a portion adapted to be disposed in said slot and having arms which terminate in ears adapted to be disposed in said diametrically disposed openings, said means including a nut adapted to engage the threads on said plug, said nut being adapted to securely retain said member in position. 35 40

In testimony whereof I affix my signature.

GEORGE J. FADELL.