July 3, 1951 R. G. BERNSTEIN 2,559,241

FIXTURE SUPPORT

Filed Feb. 9, 1950

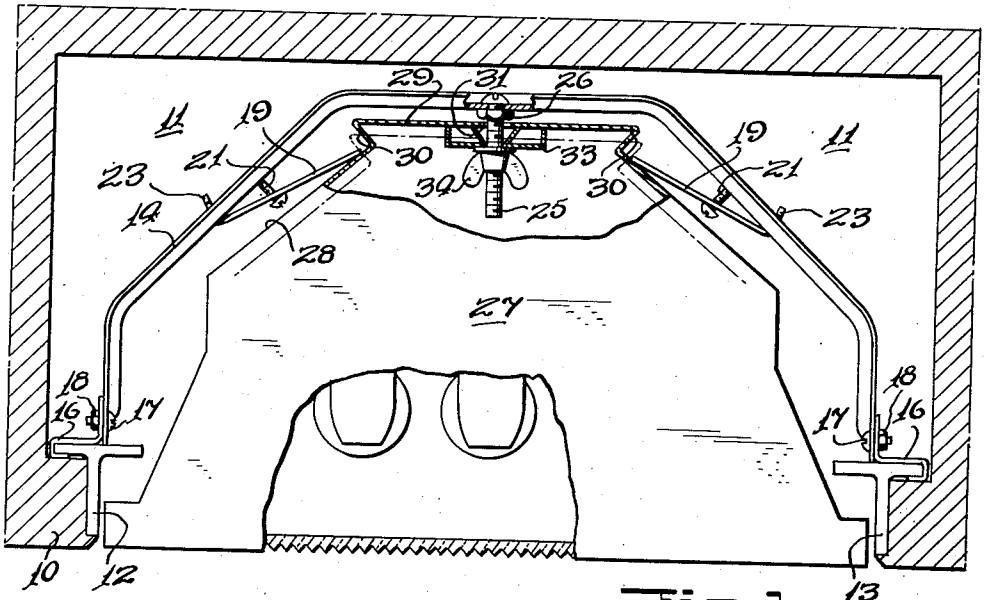


Fig. 1.

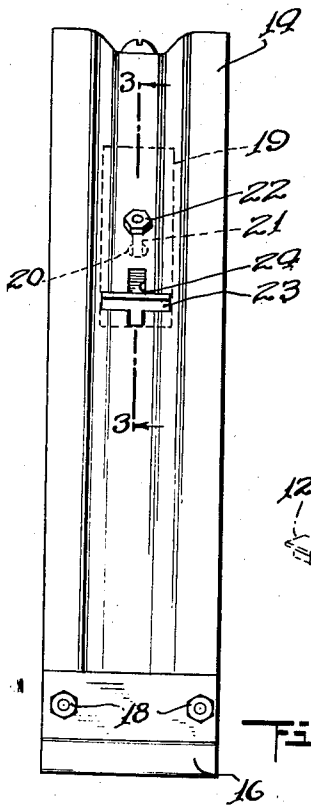


Fig. 2.

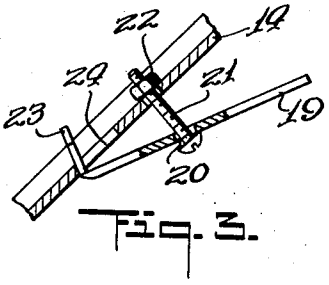


Fig. 3.

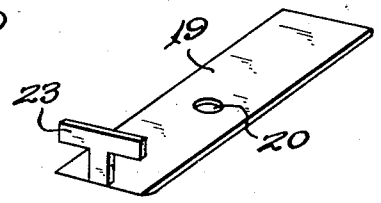


Fig. 4.

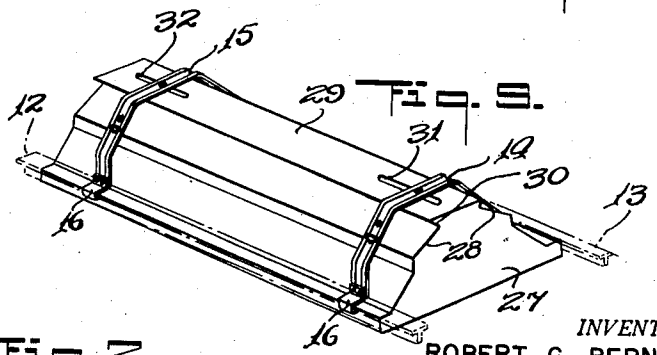


Fig. 5.

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FIXTURE SUPPORT

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3 Claims. (Cl. 248—343)

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This invention relates to the installation of electrical lighting fixtures in recessed portion of the ceiling.

The main object of this invention is to provide an automatic anchor, which will temporarily support a fixture in a recessed portion of a ceiling, thus affording ease in the final operations in setting the fixture correctly in its place and making the required electrical connections.

A further object of this invention is to provide fixed anchors in a ceiling recess for electrcal fixture boxes, with slots in the boxes and hangers from the anchors which enter the slots, the slots being long enough to provide room for longitudinal movement, so that several boxes are arranged in proper alignment.

Other novel features of the invention will appear from the following description, when read in connection with the accompanying drawings.

In the drawings:

Fig. 1 is a cross section of a recessed portion of a ceiling with fixture in place.

Fig. 2 is a side elevation of the hanger bar.

Fig. 3 is a detail cross section along 3—3 of Fig. 2.

Fig. 4 is a perspective of the latch.

Fig. 5 is an isometric view of the fixture trough supported from hanger bars.

Referring to the drawings: the ceiling 10, is recessed at 11, and is provided with joists or angle beams 12, and 13, spaced apart about the width of the fixture to be inserted. On the beams 12, and 13, there are placed two hanger bars 14, and 15, spaced apart a distance less than the length of the fixture.

The hanger bar 14, is fastened to the beam 12, by means of a looped angle plate 16, one side gripping the beam and the other fastened to the hanger bar 14, by means of a bolt 17, and a nut 18, the tighter the bolt and nut are drawn, the tighter it will grip the beam 12. A duplicate arrangement is provided on the other side of the hanger bar.

Any other means of attaching the hanger bar to the joists or angle beams may be provided, by changing the angle plate 16, accordingly.

The hanger bar 14, is provided with a gravity latch 19, perforated at 20, to receive loosely a rivet or screw 21, and nut 22. The lower end of the latch 19, is provided with a T formed holding device 23, which may be inserted in the slot 24, of the hanger bar 14, when held parallel thereto.

A similar arrangement of gravity latch is provided on the other side of hanger bar 14.

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At the top of the hanger bar 14, there is provided a long screw 25, held fast to the hanger bar 14, by a lock nut 26.

The lighting fixture is assembled in a box like trough 27, having upper converging sides 28, which forms with the widened top 29, an inclined supporting ledge 30.

The top of the trough 27, is provided with two slots 31, and 32, and reinforced by a box like device 33, which covers the slot at each end, and a wing nut 34, is provided on the screw 25.

In its operation: two hanger bars are spaced apart a distance approximately the length of the fixture, or to be exact, the distance between the slots 31, and 32, in the trough 27. The hanger bars are then fastened to the angle beams of the ceiling. The latches will hang loosely and limited downward depending on their adjustment by screw 21, and nut 22.

The fixture 27, is then lifted into the recessed ceiling and its widened top 29, pushes the loose hanging latches 19, 19, out of its way, the latches will then fall underneath the ledge 30, and the fixture is allowed to rest on the latches at that point.

With this arrangement the workmen are free to make all connections and arrange the screw 25, to enter the slot 31, and when ready tighten up on the wing nut 34, until the fixture is in its correct place. Similarly another screw is arranged to enter the slot 32, of the fixture.

Where several boxes are to be placed in proper alignment, the slots 31, and 32, will come into use, as the boxes can be moved longitudinally before setting, so that all boxes are properly aligned.

What I claim is:

1. In an arrangement for temporarily supporting an electrical lighting fixture in a recessed portion of a ceiling, which comprises: a plurality of hanger bars fastened to stationary parts in the ceiling, each bar is provided with a pair of tiltable loose fitting latches with a limited downward movement, a fixture to be inserted into the recessed portion of the ceiling, means on said fixture which are adapted to cooperate with said latches so as to temporarily support said fixture until ready for permanent setting.

2. In an arrangement for temporarily supporting an electrical lighting fixture in a recessed portion of a ceiling, which comprises: a plurality of hanger bars fastened to stationary parts in the ceiling, each bar is provided with a pair of tiltable loose fitting latches with a limited downward movement, a fixture trough having upper converg-

ing sides and a widened top, thus forming a supporting ledge, said top being adapted to enter the hanger bar and move the said tiltable latches, the ledges of the fixture top on receding will then rest and be supported on said latches.

3. In an arrangement for supporting and aligning electrical lighting fixtures in recessed portions of the ceiling, comprising: a pluralty of hanger bars fastened to stationary parts in the ceiling, each bar is provided with a pair of tiltable loose fitting latches with a limited downward movement, a fixture to be inserted into the recessed portion of the ceiling, means on said fixture which are adapted to cooperate with said latches so as to temporarily support said fixture, longitudinal slots on top of said fixture adapted

to receive screws attached to said hanger bars, and nuts on said screws but under said slots adapted when drawn up to hold said fixture in permanent position and properly aligned.

ROBERT G. BERNSTEIN.

REFERENCES CITED

The following references are of record in the file of this patent:

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