Jan. 3, 1950 L. A. MINTON 2,493,684

DETACHABLE ELECTRIC LIGHT FIXTURE

Filed Feb. 5, 1945

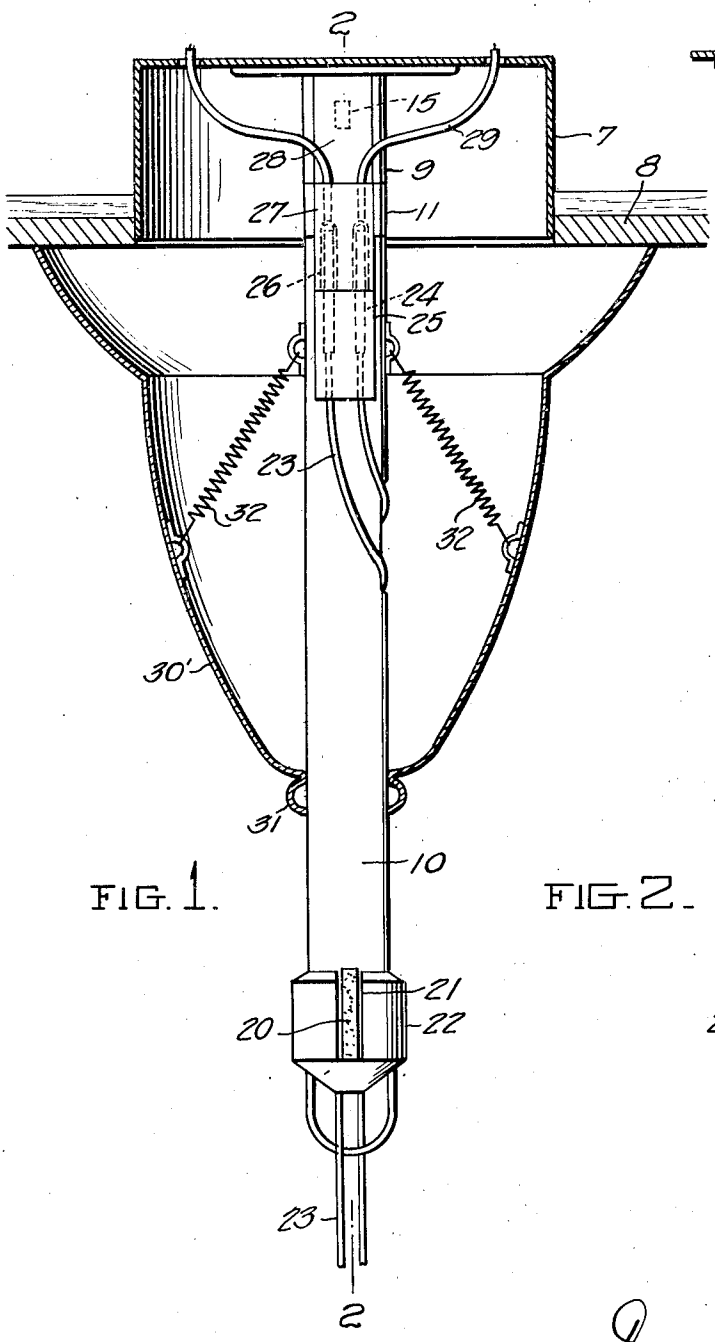


FIG. 1.

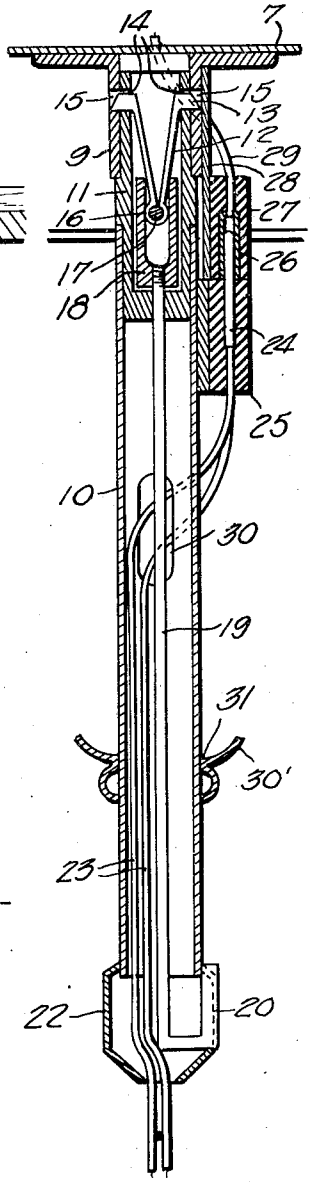


FIG. 2.

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Patented Jan. 3, 1950

2,493,684

UNITED STATES PATENT OFFICE

2,493,684

DETACHABLE ELECTRIC LIGHT FIXTURE

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Application February 5, 1945, Serial No. 576,168

6 Claims. (Cl. 248—343)

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The present invention relates to electric lamp fixtures, and aims to provide a novel and improved quick detachable electric lamp fixture whereby a lamp hanger or bracket may be quickly attached to and detached from a ceiling, wall, or other support, and permitting different fixtures to be used interchangeably.

Another object of the invention is the provision of a novel joint between the fixture hanger, stem or bracket, and the supporting member, to permit the parts to be readily assembled and separated.

A further object of the invention is the provision of a bell or joint concealing member mounted on the hanger or bracket, and adapted to bear, under spring influence, against the ceiling, wall or other surface, without requiring adjustment.

With the objects above indicated and other objects hereinafter explained in view, my invention consists in the construction and combination of elements hereinafter described and claimed.

The invention is illustrated in the accompanying drawing, wherein—

Figure 1 is a side elevation of the improved fixture, showing the outlet box and the bell or concealing member in section;

Figure 2 is a section on the line 2—2 of Figure 1.

The fixture as illustrated is for a ceiling of a room, although it will be understood that the improvements may be used for wall and other fixtures.

The outlet box 7 is secured within the ceiling 8, or the wall or other supporting member, and has secured therein a socket 9.

A tubular hanger, stem or bracket 10 has a slip joint member 11 secured in one end thereof, and said joint member is adapted to slip into the socket 9, for the quick and convenient attachment of the stem 10 to the outlet box or supporting member.

In order to hold the stem in place, a V-shaped spring catch 12 is disposed within the joint member 11 and has outstanding cam lugs 13 at its ends disposed within apertures 14 in the member 11 to snap into apertures 15 in the walls of the socket 9, as seen in Figure 2, thereby holding the stem 10 in place. The catch 12 has a loop or eye 16 at its crotch embracing a pin 17 secured in the member 11.

The catch 12 is released from the socket 9 by means of a U-shaped slide member 18 movable in the member 11 astride the loop or eye 16, and said slide member is attached to the corresponding ends of a slide rod 19 movable in the member

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11. When the rod 19 is moved toward the catch, the arms of the catch are sprung toward one another, thereby retracting the lugs 13 so that the stem 10 may be readily withdrawn from the socket 9.

The rod 19 has a bent back terminal portion 20 at the end of the stem 10 opposite to the joint member 11, disposed within a slot 21 in a head 22 secured to the corresponding end of the stem 10, and the terminal 20 is roughened to provide a finger piece for conveniently sliding the rod 19.

The wires 23 for the electric lamp or lamps extend through the head 22 and into the stem 10 and are connected with pins 24 secured within a block 25 of insulating material attached to the stem 10 near the joint member 11. The pins 24 are adapted to slip into sockets 26 within a block 27 of insulating material carried by a plate or bar 28 secured to the socket 9, so that when the joint member 11 is slipped into the socket 9, the pins 24 enter the sockets 26, to make the electrical connections. The lead wires 29 which enter the outlet box 7 are connected to the sockets 26. Electrical connections are thus made when the stem 10 is attached to the outlet box.

The stem 10 has an opening 30 through which the wires 23 extend, a sheet metal bell or concealing member 30' is slidable, as at 31, on the stem 10, and is connected by coil springs 32 with the stem, so that when the stem is connected with the outlet box, the flared rim of the bell or member 30' will contact with the ceiling wall, or surface 8, the springs 32 which are concealed within said bell or member 30' will be stretched as the member 11 enters the socket 9, thereby holding said bell or member under pressure against the surface of the ceiling or wall around the outlet box 7.

From the foregoing, it is apparent that the stem 10 or fixture proper may be readily detached for purpose of repair, cleaning, or replacement, and different fixtures may be used interchangeably.

While I have described the preferred embodiments of the invention, it is to be understood that I am not to be limited thereto inasmuch as changes and modifications might be resorted to without departing from the spirit and scope of the invention as defined in the appended claims.

Having this described the invention, what is claimed as new is:

1. An electric lamp fixture comprising a supporting member, a stem having a slip connection with said member, a catch mounted in the stem to engage said member, a rod slidable in the stem

and cooperable with said catch to disengage it from said member, and said rod having an actuating finger piece clear of said stem.

2. An electric lamp fixture comprising a socket, a stem having a terminal portion to enter said socket, a V-shaped catch in said stem having terminal portions to engage said socket, a rod slidable in the stem, and a U-shaped member connected to said rod to move astride said catch to disengage it from said socket.

3. An electric lamp fixture comprising a supporting member, a stem one end of which has a slip-joint connection with said member, the stem having a head at its other end provided with a slot, a catch mounted in the stem to engage said member, and a rod slidable in the stem and cooperable with said catch to disengage it from said member, said rod having a finger piece in said slot.

4. An electric lamp fixture comprising a supporting member, a stem, means detachably connecting the stem to said member, a concealing member slidable on the stem to contact with a surface around said member, a spring operatively connected to said concealing member and stem and normally actuating the concealing member to operative position, and an actuator carried by said stem and operatively connected to the stem and member-connecting means for operating the same.

5. An electric lamp fixture comprising a supporting member, a stem, means detachably connecting the stem to said member, a concealing member slidable on the stem and having a rim to contact with the surface around said member, spring means within said concealing member operatively connected to the latter and to the stem to yieldingly move said concealing member toward the supporting member, and an actuator carried by said stem and operatively connected to the stem and member-connecting means for operating the same.

6. The combination set forth in claim 1, and a concealing member slidable on said stem and movable to engage a surface surrounding the supporting member and latch, and yielding means connected to said concealing member and to the stem for maintaining the concealing member in its operative position.

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