Aug. 6, 1940. E. H. LOCKWOOD 2,210,681

ADJUSTABLE MOUNTING OF A RANGE LIGHT

Filed Nov. 30, 1937 2 Sheets-Sheet 1

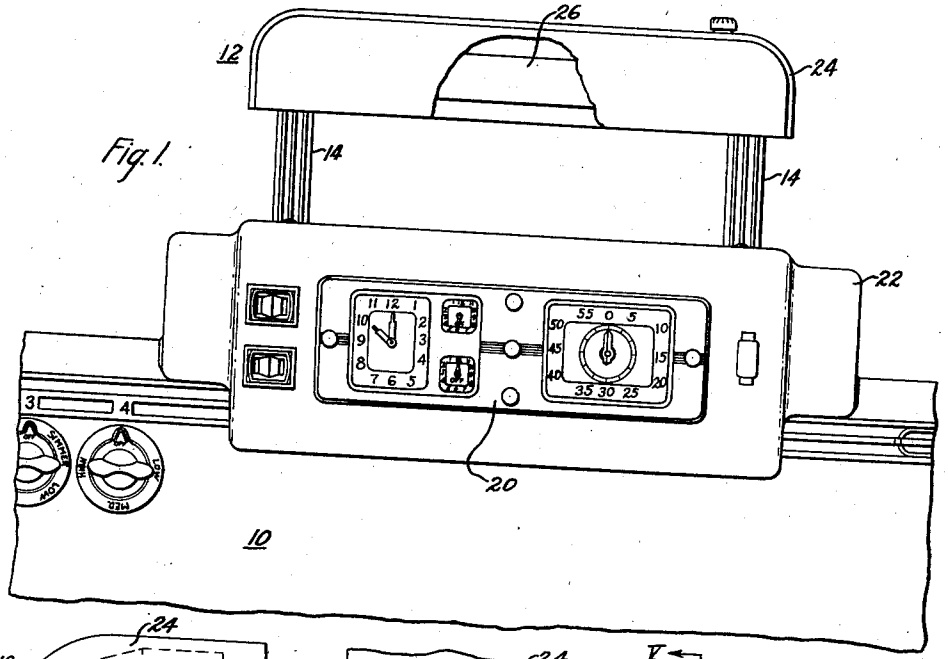


Fig. 1.

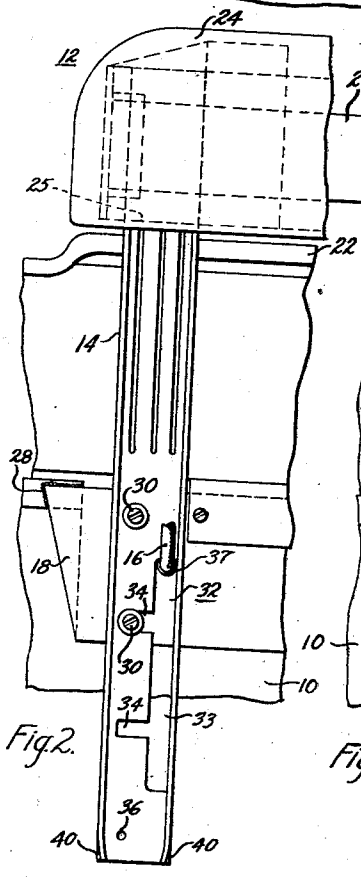


Fig. 2.

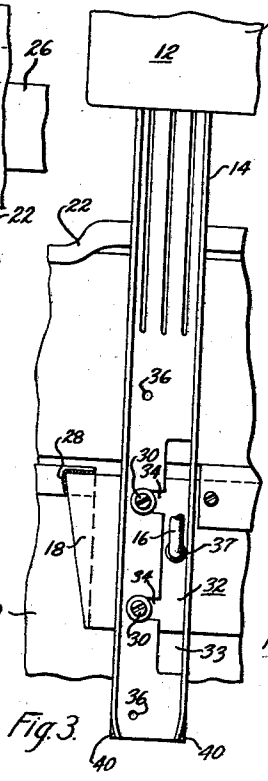


Fig. 3.

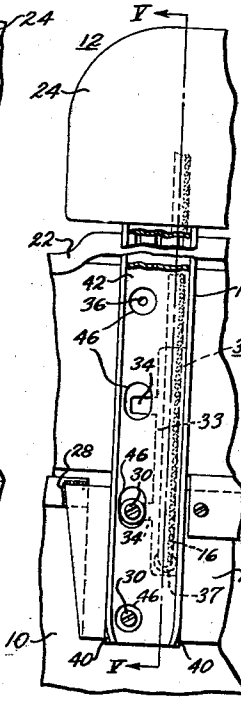


Fig. 4.

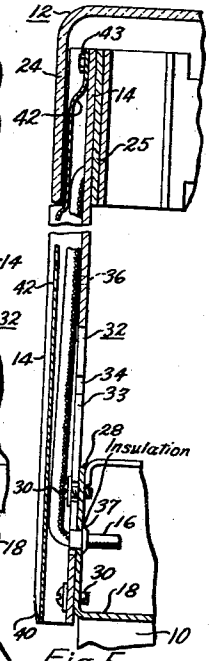


Fig. 5.

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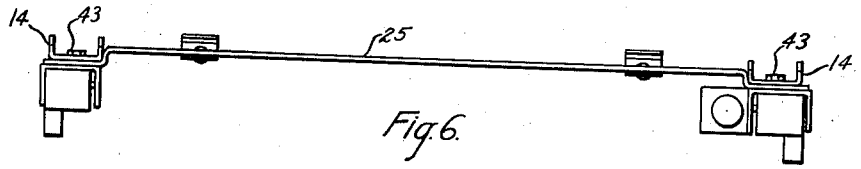


Fig. 6.

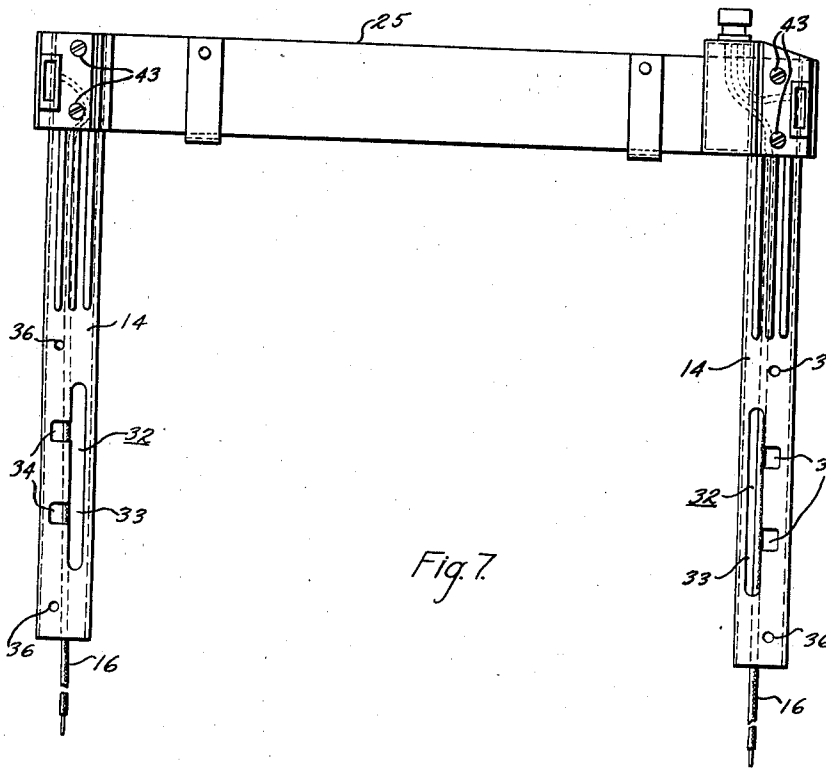


Fig. 7.

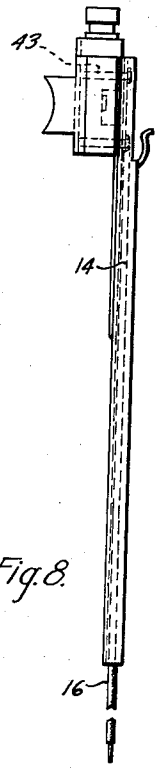


Fig. 8.

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UNITED STATES PATENT OFFICE

2,210,681

ADJUSTABLE MOUNTING OF A RANGE LIGHT

Edwin H. Lockwood, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 30, 1937, Serial No. 177,317

2 Claims. (Cl. 248—205)

My invention relates to ranges and more particularly, to a method of adjustably mounting a light thereon.

An object of my invention is to provide a supporting bracket for adjustably mounting a lamp on a range structure or the like, whereby such lamp may be readily mounted in one of a plurality of vertical positions.

A further object of my invention is to provide means for adjustably mounting a lamp on a range or the like, which lamp may be adjustably moved with respect to the range structure without requiring the moving of a power supply wire therefor.

A further object of my invention is to provide a lamp structure including a supporting bracket which shall be rugged, inexpensive and easy to adjust without injuring or removing any parts of the lamp or range structure.

Other objects of my invention will either be pointed out specifically in the course of the following description of a device embodying my invention, or will be apparent from such description.

In the accompanying drawings,

Figure 1 is a partial elevational view of a range structure embodying my invention;

Figs. 2, 3 and 4 are fragmentary rear elevational views of the range and lamp structure showing the supporting device in its various operating positions;

Fig. 5 is a sectional view taken along the line V—V of Fig. 4;

Fig. 6 is a top plan view of the lamp supporting device; and

Figs. 7 and 8 are front and side elevational views, respectively, of the supporting device.

Like reference characters indicate like parts in the several figures.

Referring to the accompanying drawings, I show a range structure including a back splasher 10, a light fixture 12, duplicate adjustably mounted supporting brackets 14, an angle bracket 18 rigidly attached to the back splasher 10 and operatively associated with the adjustably mounted brackets 14, and a power supply line 16 operatively associated with the angular bracket 18 and the light fixture 12.

The back splasher 10 is rigidly attached to or integral with the range proper, which may be of any desired type. Such back splasher has rigidly attached to the rear portion thereof the angle bracket 18, which may extend substantially parallel and may be spot welded thereto, substantially as shown at 28 in Figs. 2 to 5 inclusive. A housing 22 for a suitable combined clock and timer structure 20 is rigidly attached to the back splasher 10 and operatively associated with the angle bracket 18 in such a manner that the clock and timer structure 20 will be substantially in vertical alignment with a leg of the angle bracket 18, as set forth in detail in my copending application, Serial No. 177,316, filed November 30, 1937.

The light fixture 12, in this instance, comprises a translucent shade member 24 and a tubular light bulb 26 located therein in such a manner that it will readily illuminate the range top surface and the surface heating units (not shown). The lamp fixture 12 is adjustably mounted on the range back splasher 10 in such a manner that it may be located in a plurality of vertical positions, as hereinafter described.

The light fixture 12, including the lamp shade 24, longitudinal frame member 25 (of any suitable type) and lamp 26, is adjustably and rigidly attached to the range by means of adjustably mounted supporting brackets 14, which are adjustably secured to bracket 18 by means of set screws 30. The supporting brackets 14 have substantially a U-shaped cross-section, with the leg portions thereof extending backwardly from the range proper and have the lower ends thereof crimped laterally inwardly, as shown at 40 in Figs. 2 to 5, inclusive. An irregularly shaped slot 32 is provided in the lower portion of each of the supporting brackets 14, substantially as shown in Figs. 2, 3, 4 and 7. The irregularly shaped slot 32 comprises a longitudinally extending main slot portion 33, in the form of an elongated rectangle and a plurality of substantially parallel short lateral mounting slot portions 34 extending from one side of the main slot portion 33.

In addition to the irregular shaped slot 32, a plurality of circular apertures 36 are located within the supporting bracket 14 substantially in vertical alinement with the short lateral mounting slot portions 34. One of the circular apertures 36 is located above the slot 32 while the second circular aperture 36 is located below the slot. With the irregularly shaped slot 32 and the circular apertures 36 positioned as hereinabove described, and as shown in Figs. 2, 3 and 7, it is obvious that such supporting brackets 14 may be rigidly attached to the angle bracket 18 by means of a plurality of set screws 30 which will cooperate with either of the circular apertures 36 or with any one of the short mounting slots 34.

The power supply wires 16 extend along the angle bracket 18 and are insulated therefrom by

means of bushings 37, which are rigidly attached to the angle bracket 18 (by fitting tightly in holes therein, for example). The power supply wires 16 and the bushings 37 are so positioned on the angle bracket 18 that when the supporting bracket 14 is operatively associated with the latter, the bushing 37 and power supply wire 16 will be in line with the main elongated rectangular slotted portion 33 of the irregular slot 32, whereby the brackets 14 may be moved vertically with respect to the angular bracket 18 without necessitating moving the bushing 37 and power supply wire 16.

It is, therefore, apparent that the exact shape of the rectangular portion of the irregularly shaped slot 32 will depend upon the exact position of the power supply wire 16 and bushing 37 upon the angular bracket 18. However, it is to be understood that such slot 32 may be of any shape desired providing it permits the supporting bracket 14 to be moved vertically a predetermined amount and provide means for attaching the bracket to a range without interfering with or injuring the power supply wires 16.

The set screws 39 are operatively associated with threaded apertures located in the angle bracket 18 which are spaced in such a manner that they will cooperate with the selected aperture 36 in brackets 14 and the selected short mounting slot portion 34 of the slot 32, when the brackets 14 are operatively associated with the bracket 18.

If it be desired to adjust or change the height of the electrical fixture 12, it is merely necessary to remove the set screws 39 and move or slide the fixture and operatively associated brackets 14 vertically along the angle bracket 18. In this way the set screws 39 may be associated with the upper apertures 36 and upper lateral mounting portion 34, of each bracket 14, substantially as shown in Fig. 2, whereupon the bracket is mounted in its lowermost position.

Should it be desired to mount the fixture in an intermediate position it is merely necessary to locate the brackets 14 in such a relative position that the set screws 39 will be associated with the two lateral mounting portions 34 of the irregular slot 32 of each bracket 14, substantially as shown in Fig. 3.

Should it be desired to have the light fixture located in its uppermost position, it is then merely necessary to locate the brackets 14 so that the set screws 39 will be associated with the lower lateral mounting portions 34 and lower apertures 36 of each bracket 14, substantially as shown in Fig. 4.

It is, therefore, obvious that, due to the arrangement of the irregularly shaped slotted aperture 32 and the circular apertures 36, in combination with the arrangement of the angle bracket 18 with respect to the range, the light fixture 12 may be readily adjustably mounted upon a range without moving or injuring the power supply line 16 and its insulating bushing 37. It is further obvious that, the light fixture 12, including its irregularly shaped slot, may be rigidly attached to a range in any desired manner without the use of the angle bracket 18; providing, however, that such range has a plurality of threaded apertures which will permit the screws 39 to cooperate with the slot 32, as hereinabove described.

A cover plate 42 is positioned within the U-shaped supporting brackets 14 so as to protect the power supply lines 16. The cover plate 42, preferably of sheet metal, is loosely held at its lower end by the crimped portions 40 of the bracket 14, and is rigidly supported at its upper end by frame 25 and bolt 43, as shown in Fig. 5. The cover plate 42 has a plurality of apertures 46, which are in line with the circular apertures 36 and the lateral mounting portions 34 of the irregularly shaped slot 32 located within the supporting brackets 14; whereby the screws 39 are readily accessible without removing the cover plate 42.

It is therefore obvious that the cover plate 42 will adequately protect the power supply lines 16, and that, due to apertures located within the cover plate, the light fixture 12 may be adjusted to the desired position without removing the cover plate 42.

Various further modifications may be made in the device embodying my invention without departing from the spirit and scope thereof, and I desire therefore, that only such limitations shall be placed thereon as are imposed by the prior art and the appended claims.

I claim as my invention:

1. In combination, a back splasher for a range, a single elongated bracket extending substantially horizontally and secured thereto, a light fixture, a plurality of spaced hollow vertically-extending supporting structures for said light fixture each having a substantially vertical slot with a plurality of lateral mounting portions, and a plurality of power supply conductors respectively permanently mounted in openings in said bracket in alinement with the respective slots and extending upwardly through the respective hollow supporting structures substantially parallel to the respective slots to said light fixture, the lateral portions of the respective slots adapted to permit rigidly attaching the respective supporting structures to said single bracket.

2. In combination, a back splasher for a range, a single elongated bracket extending substantially horizontally and secured to the rear thereof, a light fixture, a plurality of spaced hollow vertically extending supporting structures for said light fixture disposed in back of said bracket and each having a substantially vertical slot with a plurality of lateral mounting portions, and a plurality of power supply conductors respectively permanently mounted in openings in said bracket directly behind the respective slots and extending upwardly through the respective hollow supporting structure directly behind the respective slots to said light fixture, the lateral portions of the respective slots adapted to permit rigidly attaching the respective supporting structures to said single bracket.

EDWIN H. LOCKWOOD.