

Nov. 26, 1935.

M. J. SULLIVAN

2,022,222

ELECTRIC LIGHTING FIXTURE

Filed June 21, 1934

2 Sheets-Sheet 1

Fig. 1.

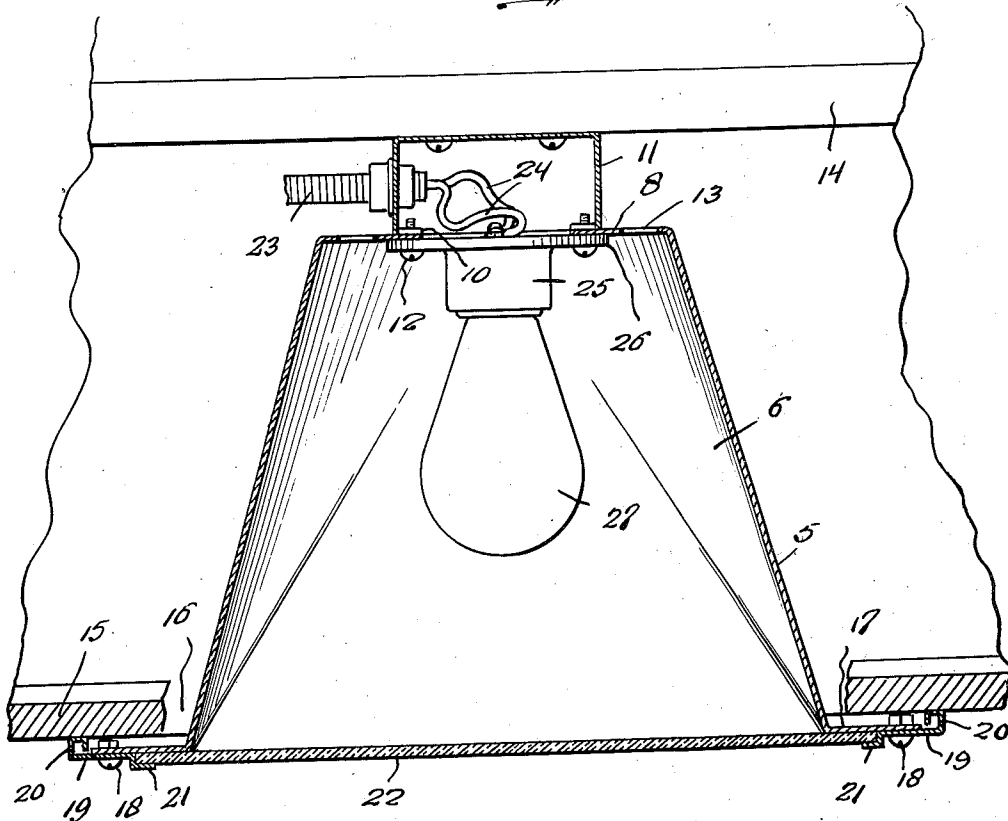
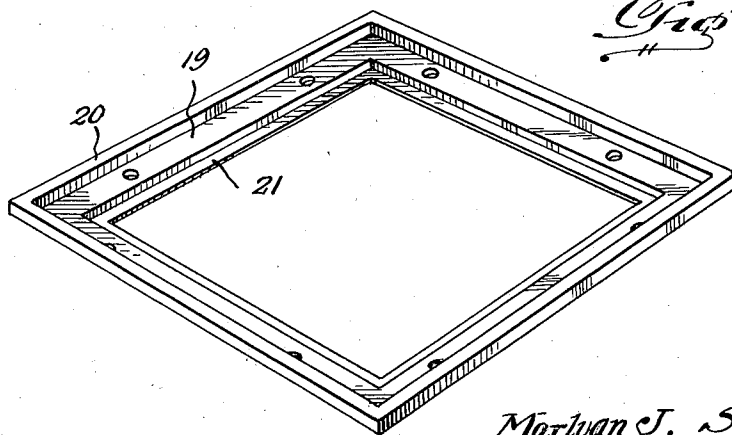


Fig. 4.



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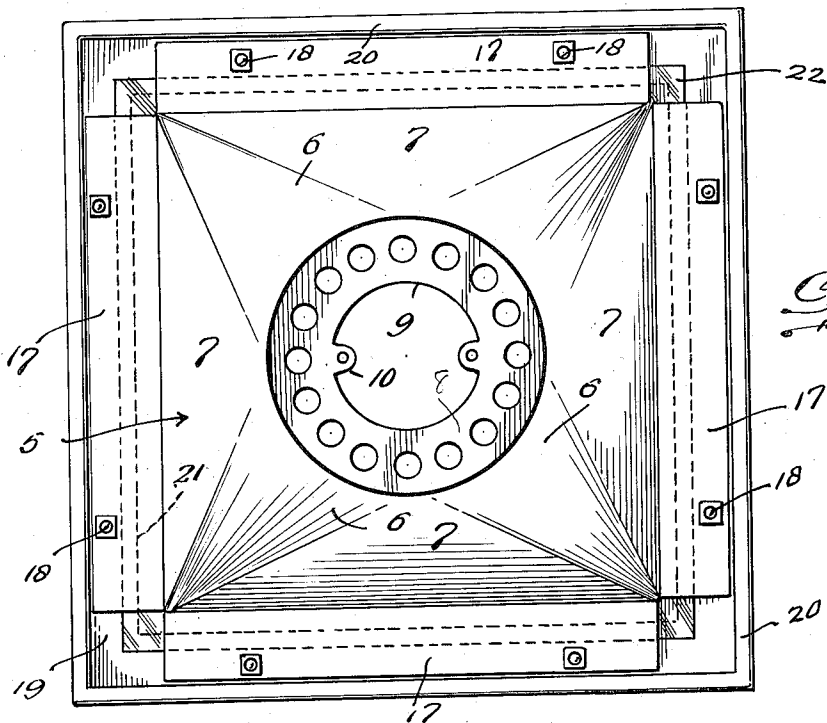


Fig. 2.

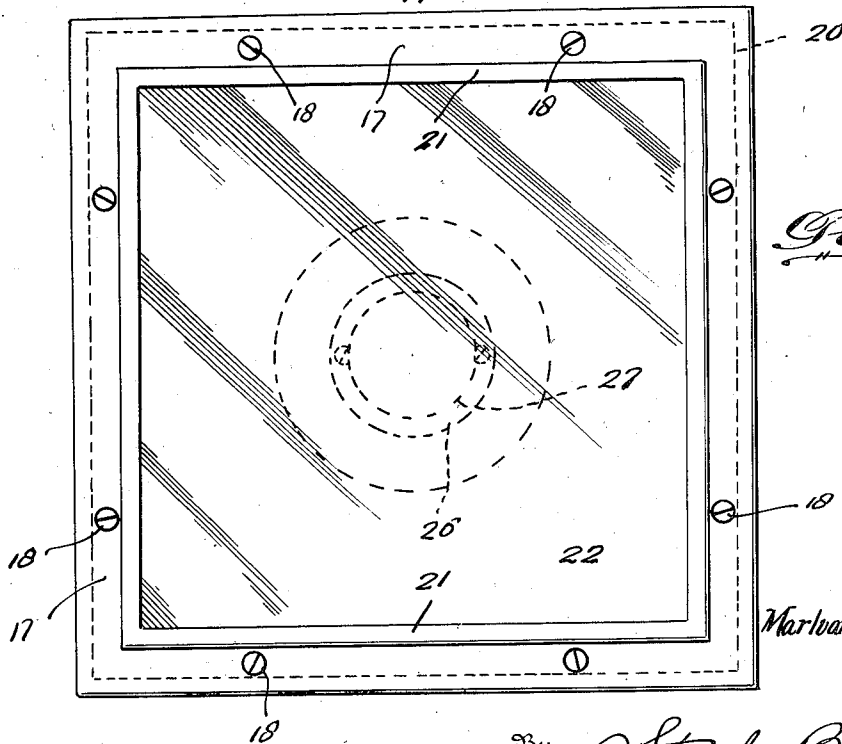


Fig. 3.

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UNITED STATES PATENT OFFICE

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ELECTRIC LIGHTING FIXTURE

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Application June 21, 1934, Serial No. 731,729

2 Claims. (Cl. 240—78)

This invention relates to ceiling fixtures designed for use in rooms with limited ceiling height and other places where it is necessary or desirable that the fixture be such as to not project far below the surface of the ceiling.

An object of the present invention is to provide a ceiling fixture of the above kind which is simple and durable in construction, economical to manufacture and install, and efficient in use.

A more specific object of the present invention is to provide a ceiling fixture of the above kind having a novel form of reflector substantially possessing the efficiency and desirable characteristics of a circular reflector although capable of more economical production, and permitting the use of a relatively inexpensive rectangular face plate and rectangular lens or light transmitting closure plate in connection therewith.

Other objects and features of the invention are attained by the novel construction, combination and arrangement of parts hereinafter more fully described, shown in the accompanying drawings, and claimed.

In the drawings:

Figure 1 is a central vertical sectional view of a lighting fixture constructed in accordance with the present invention and installed in operative relation to the ceiling of a room.

Figure 2 is a top plan view of the fixture detached from the outlet box.

Figure 3 is a bottom plan view thereof; and

Figure 4 is a perspective view of the face plate for securing the lens or closure plate of the fixture in place and providing a finished appearance about the opening cut in the ceiling.

Referring in detail to the drawings, the fixture includes a reflector 5 of general frusto-pyramidal form, but with the vertical or longitudinal corner portions thereof rounded as at 6 to provide the reflector with a circular smaller upper end and a rectangular larger lower end, the body of the reflector thereby consisting of flat triangular sides 7 which taper narrower in an upward direction and which are connected by the rounded corner portions 6 which taper wider in an upper direction. The reflector is provided at its smaller upper end with a circular end wall 8 formed with a relatively large central opening 9 and provided with inwardly projecting ears 10 to facilitate rigid bolting of the reflector to the bottom of an ordinary outlet box 11 as at 12. The end wall 8 is of somewhat larger diameter than the outlet box 11, and the projecting outer marginal portion of the wall 8 is provided with a circular series of openings 13 for ventilating purposes.

In installing the fixture, it is to be understood that the outlet box 11 is supported by a joist or other suitable means 14 above the ceiling 15, the reflector 5 being set in an opening 16 provided in the ceiling 15 and being supported by the outlet box in a position wherein the mouth or open lower end of the reflector projects through the ceiling opening 16 a very slight distance below said ceiling.

The lower end of the reflector is provided with flat outturned side flanges 17 arranged to project parallel with and beneath the portion of the ceiling 15 about its opening 16, and bolted at 18 to the under sides of these flanges 17 is an open rectangular finishing frame or plate 19 which projects outwardly beyond the outer edges of the flanges 17 and terminates in an upwardly and inwardly rolled outer edge portion 20 adapted to contact the ceiling 15 and afford a finished appearance to the fixture when installed, with the opening 16 in the ceiling entirely obscured. The inner marginal edge portion of the finishing frame 19 is downwardly offset as at 21 to form a seat, and engaged at its margin in this seat is a flat rectangular lens or closure plate 22 for the mouth or bottom of the reflector 5. The finishing frame 19 firmly clamps the margin of the lens or closure plate 22 against the flanges 17 on the bottom of the reflector 5, and it will be understood that the lens or closure plate 22 may be made of any suitable light transmitting material, either of a clear or light refracting character.

The outlet box 11 has the usual side aperture for reception of a conduit 23 containing wires 24 having their ends suitably fastened to the usual terminal of a lamp socket 25 suitably supported by the outlet box 11 immediately below the latter and within the upper end of the reflector 5. As shown, the socket 25 may be directly carried and supported by a closure plate 26 for the outlet box 11 and bolted against the under side of end wall 8 of the reflector and to the outlet box 11 by the same means 12 which secures the reflector to the outlet box. The socket 25 carries an ordinary electric bulb 27 which depends within the reflector 5 toward the lens or closure plate 22.

From the foregoing description, it will be seen that I have provided a lighting fixture by means of which the stated objects of the invention are effectively carried out, and it will be noted that the construction provides for ready separation or assembly of the parts for cleaning or repair or installation. Various changes in the details

of construction illustrated and described may be resorted to as fall fairly within the spirit and scope of the invention as claimed.

What I claim as new is:

- 5 1. In a wall fixture of the character described, a tapered one-piece reflector having its larger lower end outwardly flanged and arranged substantially flush with the surface of the wall and provided at its smaller upper end with a flat
10 end wall provided with a central opening and with ears projecting inwardly of said opening to facilitate rigid bolting of said end wall directly to the bottom of a conventional outlet box, a light transmitting closure plate seated against
15 the outwardly flanged lower end of the reflector, and a finishing plate secured to the outwardly flanged lower end of the reflector and clamping said closure plate in place, said flat end wall at the smaller upper end of the reflector being
20 of a size to extend outwardly beyond the sides

of the outlet box and provided with ventilating openings.

2. In a wall fixture of the character described, a reflector of general frusto-pyramidal form having flat sides and rounded longitudinal corner
5 portions tapered in opposite directions to provide the reflector with a circular smaller upper end and a rectangular larger lower end, means to rigidly fasten the smaller end of the reflector directly to the bottom of a conventional outlet
10 box for supporting the reflector with its lower end substantially flush with the surface of the wall, said reflector having its larger lower end outwardly flanged, a light transmitting closure
15 plate of rectangular form seated against the outwardly flanged lower end of the reflector, and a rectangular finishing plate secured to the outwardly flanged lower end of the reflector and securing the closure plate in place.

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