

Aug. 2, 1932.

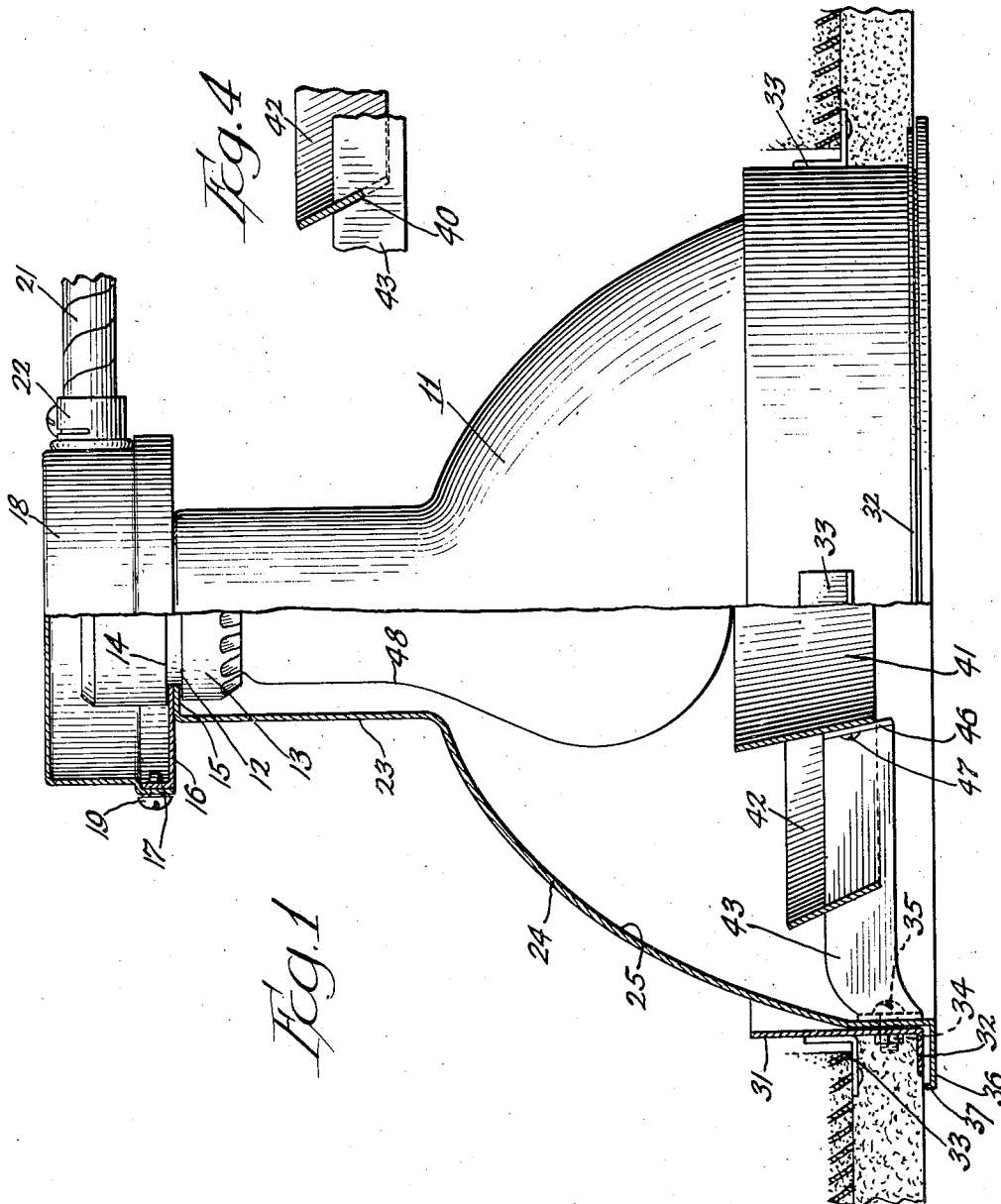
J. F. READER

1,869,823

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Filed Jan. 26, 1931

2 Sheets-Sheet 1



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Fig. 2

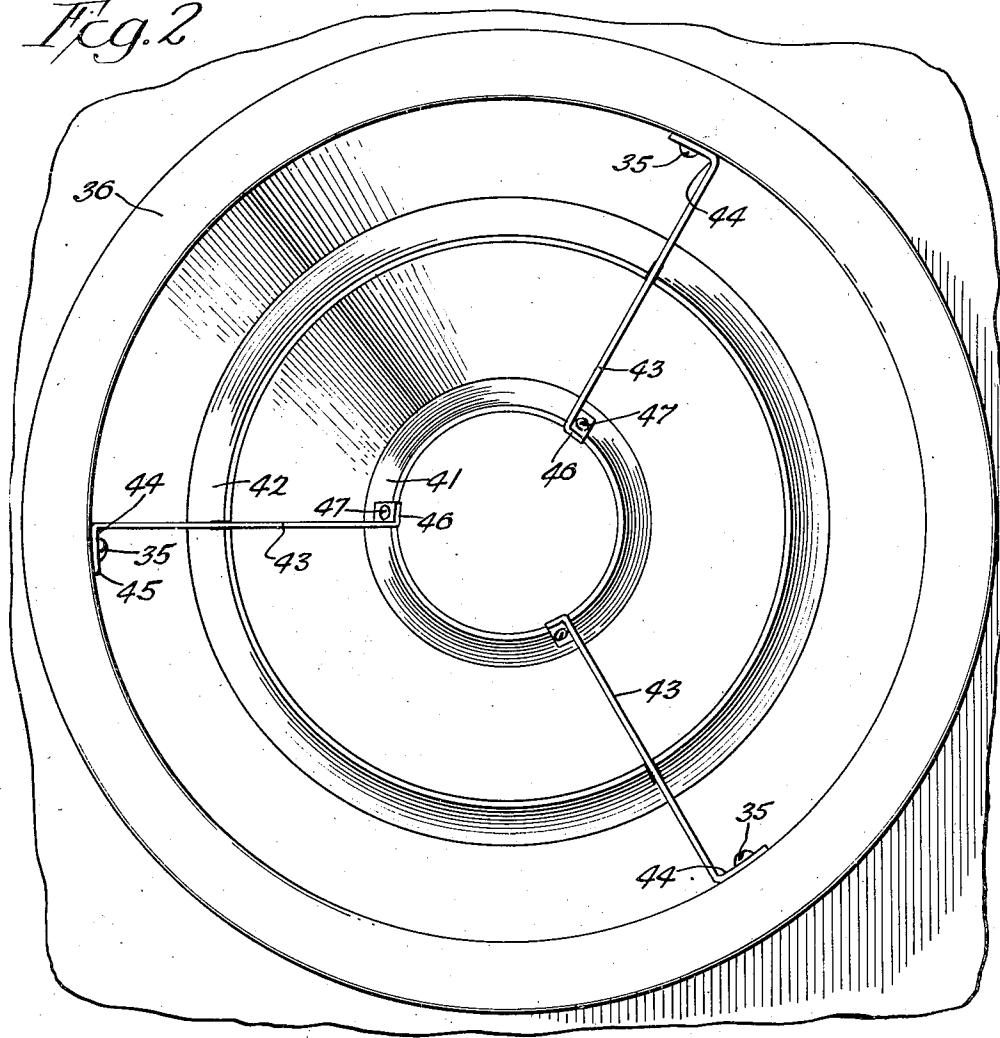
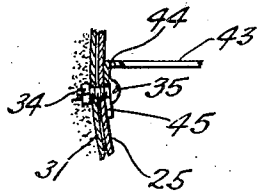


Fig. 3



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UNITED STATES PATENT OFFICE

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Application filed January 26, 1931. Serial No. 511,119.

This invention relates to electric lighting assemblies, and particularly to wall and ceiling assemblies adapted to direct a confined beam to a localized area, as, for example, the top of a desk, drawing board, or the like.

The invention has for its object broadly the provision of a simple electric lighting fixture which may be cheaply manufactured, easily installed, and securely held in position.

The invention contemplates the employment of a spill ring assembly to confine the directed rays to a prescribed zone of light, and an important object of the invention is the construction mounting such a spill ring within the lighting fixture, the whole being easily adapted for installation in the ceiling with its presented face flush or substantially flush with the wall surface.

Numerous other objects and advantages of the invention will be apparent as it is better understood from the following description, which, taken in connection with the accompanying drawings, discloses a preferred embodiment thereof.

Referring to the drawings:

Figure 1 is a partial section, partial elevational view of an electric light assembly embodying the present invention;

Fig. 2 is a bottom plan view of the same, in position in the ceiling of a room; and

Figs. 3 and 4 are details showing certain features of construction.

The electric lighting fixture shown on the drawings comprises primarily a reflector or casing 11, secured at its edges, as will be presently described, into the room ceiling and provided with a light bulb receiving socket 12. This socket, in the present instance, is in two parts, screwed or otherwise secured together to provide shoulders 13 and 14 adapted to engage and hold an inturned flange 15 on the reflector and a housing base 16 of sheet metal, this base being turned up around its edge into a flange 17. A housing cap 18 is telescopically engaged with the flange 17 and these parts are conveniently secured together by screws 19. A conductor cable 21 is suitably let into the socket housing through a locking collar 22. The reflector is provided with a rear cylindrical tube receiving

portion 23 and is flared outwardly at 24 to a general parabolic shape. The inner face of the reflector is, of course, silvered or otherwise highly polished at 25 to increase the reflection and direction of the rays.

The fixture is preferably mounted in the ceiling or wall, as will now be described. A cylindrical sheet metal ring 31 is provided with a plaster engaging radially extending flange 32 and with a plurality of wire lath engaging lugs 33 spotwelded or otherwise secured to the outer cylindrical face of the ring. A plurality of nuts 34 are secured upon the outer face of the ring 31 by welding or otherwise and the ring is perforated in registration with these nuts for the reception of screws or bolts 35. The dimension of the ring is such that the reflector fits nicely within it after the ring has been installed in the ceiling wall structure. The screws or bolts 35 may be threaded through appropriately arranged openings near the edge of the reflector and into the holding nuts 34 already described. The reflector is also provided with a finishing outer flange 36 turned down at its marginal edge at 37 for engagement with the plaster of the ceiling.

The spill ring comprises two inclined circular bands 41 and 42 supported by spider arms 43, the spider arms being bent at right angle at their ends at 44 and slotted as indicated in Fig. 3 at 45 to engage down over the bolts or screws 35. The bracket arms, of which three are disclosed on the drawings, are slotted at 40 for interengagement with the outer spill ring 42 and are provided at the inner end with laterally extending flanges 46 adapted for attachment at 47 with the presented face of the inner spill ring. The spill rings are preferably coated with a light absorbing material to prevent rays from the lamp bulb being directed outside the prescribed or desired margins of the beam.

It is thought that the invention and many of its attendant advantages will be understood from the foregoing description, and it will be apparent that various changes may be made in the form, construction and arrangement of the parts without departing

from the spirit and scope of the invention or sacrificing all of its material advantages, the form hereinbefore described being merely a preferred embodiment thereof.

5 I claim:

1. In a lamp assembly, the combination of a securing ring having parts adapted for attachment to wire lath and a flange for engagement with the face of a wall or ceiling,
10 fastening devices arranged through said ring, and a reflector adapted for insertion within the ring and to be engaged by said fastening devices.

2. In a lamp assembly, the combination
15 of a securing ring having parts adapted for attachment to wire lath and a flange for engagement with the face of a wall or ceiling, fastening devices arranged through said ring, a reflector adapted for insertion within
20 in the ring and to be engaged by said fastening devices, and a spill ring assembly separately connectible in said reflector.

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