

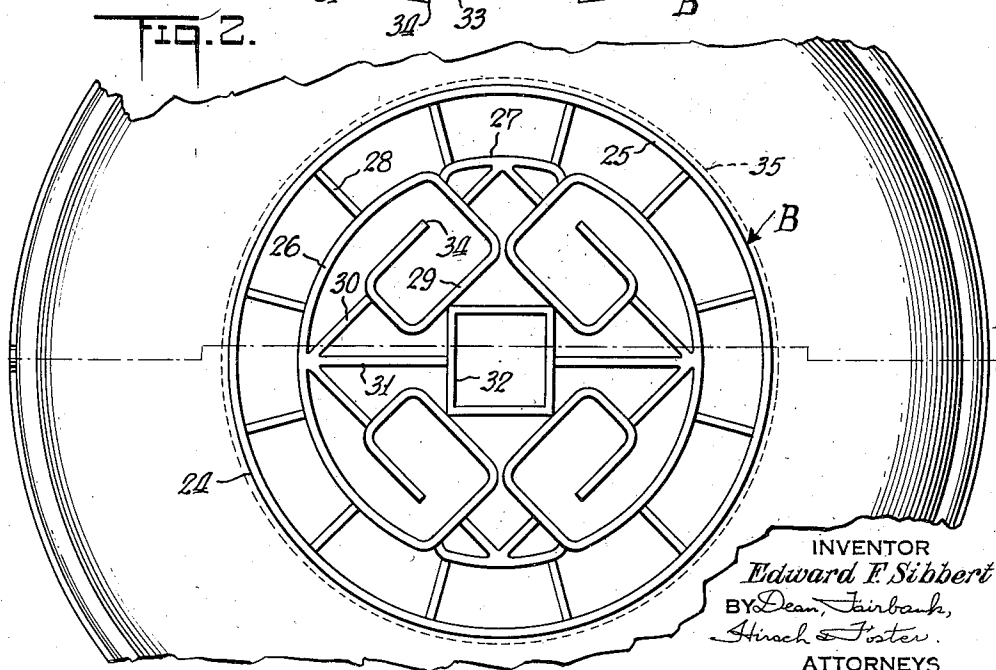
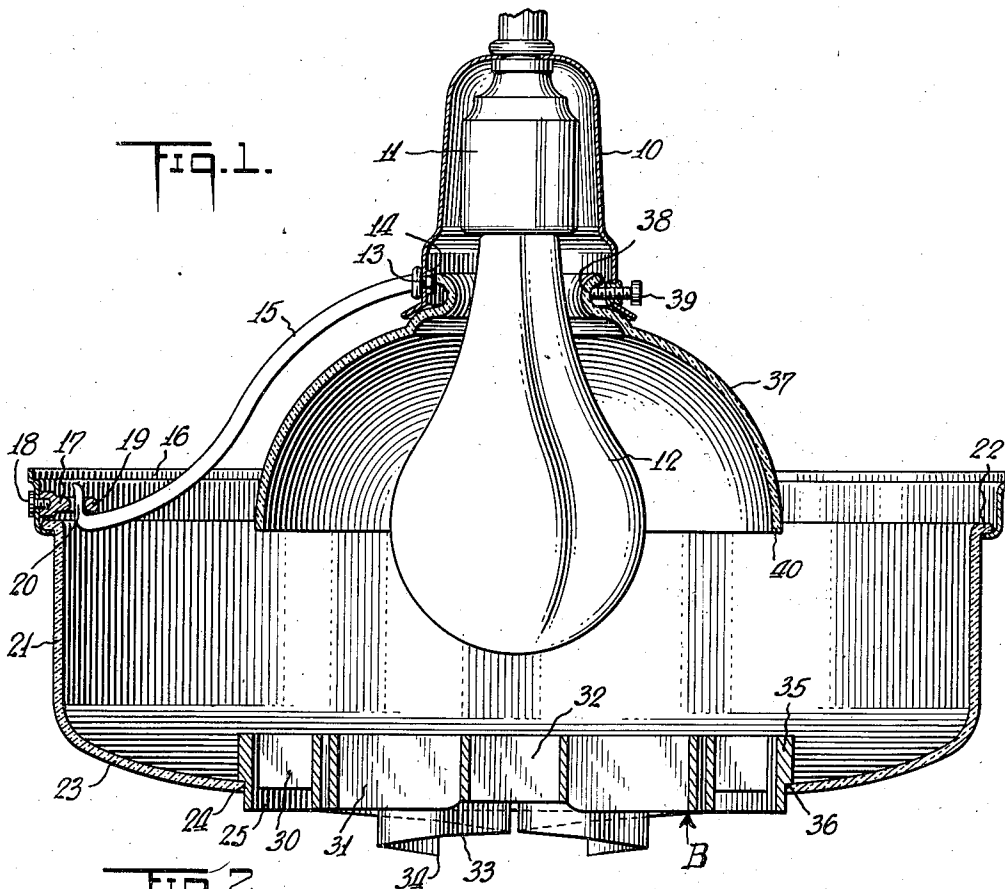
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LIGHTING FIXTURE

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LIGHTING FIXTURE

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My present invention relates to lighting fixtures, more particularly to fixtures of the type to be suspended from the ceiling.

Among the objects of the invention are to provide a fixture of the above type of simple and relatively inexpensive construction, involving few parts, that are easily assembled and affording not only scientifically correct, efficient and glareless illumination but also constituting in itself effective decoration for the room, gallery or store in which it is used.

Another object is to provide a fixture of the above type which with the use of inexpensive metal affords the particularly rich effect of inlaid cast stained glass.

Another object is to provide a fixture of the above type which permits expansion and contraction of the vitreous and metal parts without likelihood of cracking under the heat of the lamp, and which though it presents the appearance of an enclosed structure, nevertheless affords complete ventilation.

A feature of the invention is to provide a glass bowl concealing a lamp encircled thereby, said bowl having a relatively large opening carrying an opaque exposed baffle unit, presenting a pattern of louver walls, so that the light is not only diffused through the bowl, but some of it is passed directly through the baffle, which latter in turn is illuminated from the source of light and is visible from the side to produce the attractive cast stained glass effect desired.

Another feature is the structural relation of parts, including a series of support arms radiating from the socket cover and carrying a diffusing bowl element by suspension from the upper rim of the latter, the baffle unit being supported in a central opening in said bowl.

In the accompanying drawing in which is shown one of various possible embodiments of the several features of the invention,

Fig. 1 is a view in longitudinal cross-section through the unit, and

Fig. 2 is a fragmentary bottom plan view thereof.

Referring now to the drawing, the unit comprises a conventional lamp socket cover 10 supported in any appropriate manner from the ceiling and housing the conventional lamp socket 11 supporting the lamp 12.

Rigidly secured to the socket near the lower end thereof, as for instance by nuts 14 and affixed upon the threaded inner ends 13 which protrude through corresponding holes in the socket cover, there are outwardly radiating support arms 15

of ornamental shape, which extend generally downward from the socket cover.

Carried by the support arms is a light-diffusing bowl 21, which preferably is open and of maximum diameter at its top and has an outwardly turned upper rim 22, resting on the inturned lower rim of a sheet metal carrying ring 16 to which are affixed, as by screws 18 studs 17 with eyes 19 resting over the upturned hook ends 20 of the support arms 15.

The bowl 21 has a bottom 23 with a central opening 24 therein, illustratively a circular opening, concentric with the bowl and of diameter considerably in excess of half the diameter of the bowl. Supported within opening 24 is a baffle unit B, preferably of opaque structure, which may be cast as a unitary piece of aluminum. This baffle unit is shown with a circular outer wall 25 and an ornamental or decorative pattern of preferably vertical baffle partitions framed thereby. In the particular embodiment shown, the baffle unit has a pair of concentric arcuate partitions 26 each of somewhat less than a semi-circle, with the inner walls thereof terminating in scroll conformations 29, and short arcuate walls 27 joining the longer arcuate walls 26, said various arcuate walls connected to the outer circular walls by radiating partitions 28. Partitions 30 join the various scrolls to the middle of the respective walls 26 and their junction is connected by diametrically extending partitions 31 to a hollow square central conformation 32. While the pattern described is particularly suitable for the purpose at hand, it is merely one illustrative form of myriads of possible patterns that might be used.

According to the invention, the baffle unit is of height preferably in the order of one inch or so, and its outer wall 25 is of greater thickness as at 35 for the major portion of the height above the lower end thereof, thereby to afford a flange with a narrow shoulder 36 to rest upon the inner rim of the bowl and to afford a substantial height of wall protruding below the bowl as shown.

Preferably the extent of protrusion of the baffle wall and partitions is not uniform, but illustratively the scroll conformations 29 protrude downward below the rest of the wall, the lower edge of said scrolls extending obliquely as shown at 33 rather than horizontally, the lowermost part of the scroll being the end point 34. The purpose of this construction will appear hereinafter.

The fixture while suitable in a wide variety of applications has special utility in salesrooms with

low ceilings, as, for instance, in the basement salesrooms of department stores, chain stores and the like. In that relation, it is desirable to avoid the possibility of glare from the bulb 12 to the eyes especially of tall persons. Accordingly, an upper smaller auxiliary light diffusing bowl 37 is provided about the bulb, which is supported at its smaller upper rim 38 by conventional support screws 39 and flares downward and outward to a rim 40 somewhat below the support ring 16 of the main or lower bowl 21.

In use, the light from the bulb 12 is diffused through the glass bowl elements 21 and 37 for adequate illumination of the general storeroom. The baffle unit B permits some of the light to be projected directly downward therefrom, with some lateral diffusion, for more brilliant illumination of the counters and floor substantially directly therebelow and the merchandise on display. However, the downwardly protruding baffle partitions in the relation described are so disposed as to serve for anti-glare shielding to protect the customers from being dazzled by direct view or glare from the incandescent filament.

The vertical baffle partitions are brightly illuminated from the lamp and the illusion is thereby created of a cast stained glass structure, the lines of demarcation between the various baffle partitions creating the illusion of the sutures between segments of glass. Moreover, by virtue of the different levels to which the partitions protrude, there is produced a shadow effect, affording a three dimensional impression of solidity.

It will be seen that the lamp in its preferred embodiment is devoid of any reflector, and that the parts are so correlated that freedom of expansion thereof is permitted without likelihood of cracking under the heat of the lamp. Although the fixture appears to the eye completely to enclose the bulb, it is quite adequately ventilated not only through the louvers defined by the baffle partitions, but through the large opening between the rim of the outer bowl 21 and the much smaller rim of the inner bowl 37.

It will thus be seen that there is herein described a lighting fixture in which the several features of this invention are embodied, and which in use attains the various objects of the invention and is well suited to meet practical requirements.

As many changes could be made in the above disclosure and many apparently widely different embodiments of this invention could be made without departing from the scope of the claims, it is intended that all matter contained in the above description or shown in the accompanying

drawing shall be interpreted as illustrative and not in a limiting sense.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a lighting fixture, a light source, means enclosing the same and having an opening with a baffle unit supported at the rim of said opening, said unit comprising a pattern of louver walls, defining openings of a variety of geometric configurations, the lower edges of said walls extending downward to different extents from the rim of said enclosing means.

2. In a lighting fixture, a light source, an enclosing bowl therefor, open at its bottom and presenting an inturned rim thereat, a baffle unit supported at said rim, said unit comprising a pattern of louver walls including a series of combined rectilinear and curvilinear walls including scrolls extending in a diversity of directions, the lower edges of said scrolls protruding progressively downward from the periphery to the extremity of each said scroll.

3. A lighting fixture, comprising a socket cover, an upper light diffusing bowl attached to said cover, and flaring downward therefrom, support arms attached to said cover, a lower bowl of larger diameter carried by said support arms, concentrically with said upper bowl, an electric light bulb protruding from said socket cover, said larger bowl having a concentric opening in the bottom thereof, presenting a rim, a baffle unit supported upon said rim, said unit comprising a pattern of louver walls defining openings of a variety of geometric configurations, the lower edges of said walls extending downward to different extents from said lower bowl.

4. A lighting fixture comprising a socket cover, an upper bowl supported from its upper rim within said cover and flaring downwardly therefrom, support arms rigidly secured to said cover and radiating outward and downward therefrom, a support ring carried by said arms and of diameter considerably larger than that of said upper bowl, a lower bowl carried at its upper rim by said ring and extending downward therefrom, said bowl having a central opening in its bottom of a diameter in the order of that of said upper bowl, a baffle unit having an integral support flange resting on the rim of said opening, said unit comprising a pattern of louver walls including a series of combined rectilinear and curvilinear walls including scrolls extending in a diversity of directions, the lower edges of said walls extending downward to different extents below said support flange.

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