Feb. 3, 1931. E. F. GUTH 1,791,126

LIGHTING FIXTURE

Filed Dec. 30, 1929

FIG. 1

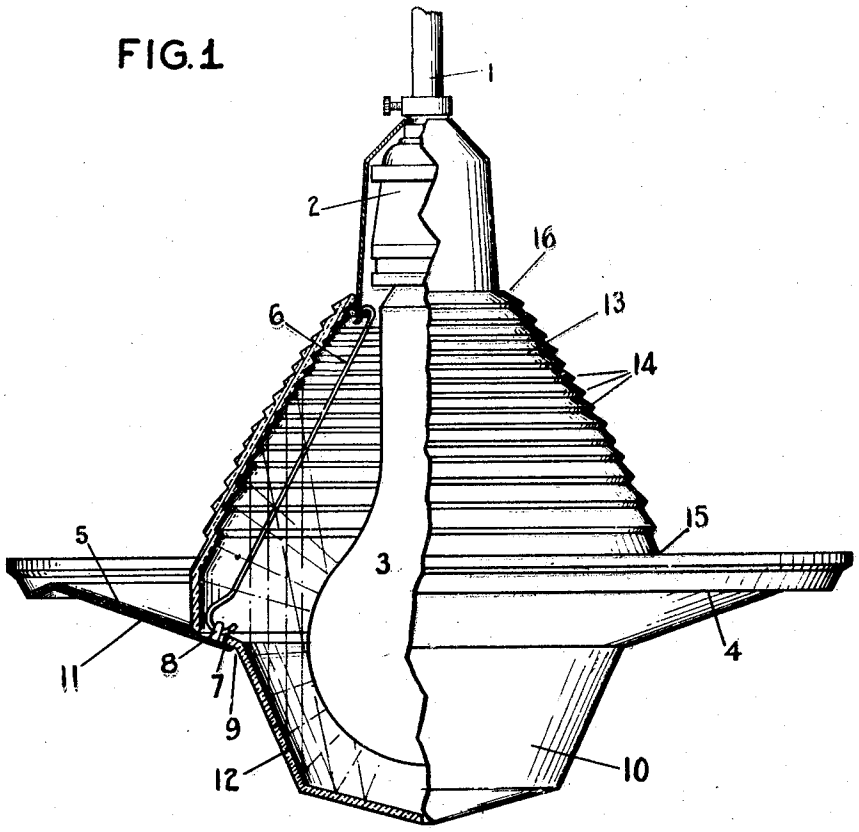
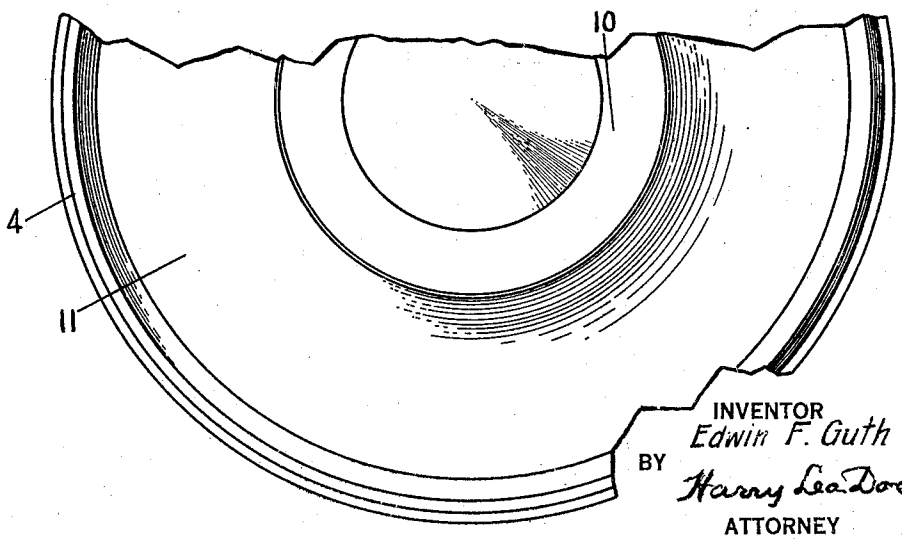


FIG. 2



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LIGHTING FIXTURE

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This invention relates to that type of lighting fixtures termed enclosed indirect. Fixtures of this type are subject to certain recognized objections, such as causing too intense or spotlight areas, either on the ceiling or on the working plane. Others fail to properly shield the eye from the present day high-powered gas-filled electric light bulbs, thus producing objectionable glare as it is termed.

My invention has for its object, to produce a fixture which will avoid glare, by providing an opaque shield to protect the eye from the intense brightness, and to enclose the opening in the center of the shield with a cup of porcelain, the inner surface of which is formed to produce a very high efficiency reflecting surface, the light being permitted to filter through to illuminate the bottom of the spaced shield to show any ornamental configuration or decoration on the exterior of the cup.

I provide for uniform distribution of the light rays by means of an enclosing member made of crystal glass, composed of a number of prisms which are formed to refract the light rays to such a degree that the ceiling will be uniformly illuminated, and thus obtain more uniform lighting of the working plane and less brightness on the ceiling, also better lighting of artistic ceiling decorations.

My means for accomplishing the foregoing object may be more readily understood by reference to the accompanying drawings, which are hereunto annexed and are a part of this specification, in which—

Fig. 1 is a side elevation of a fixture embodying my new invention, a portion being broken away and being shown in section; and

Fig. 2 is a fragmentary bottom view of the same fixture.

Similar reference numerals refer to similar parts throughout the entire description.

As shown in the drawings, the fixture is shown supported by a pipe 1, though obviously any standard type of suspension may be employed. To the pipe 1 is secured a socket 2, which carries an electric light bulb 3. An opaque shield 4, preferably of metal, designed to form a reflector 5, is suspended from wire supports 6, which terminate in hooks 7 which engage eyes 8, thus providing convenient means of suspension which can easily be removed when desired.

This reflector 5 not only serves as a reflector, but also shields the eye from the intense light of the bulb 3. A central opening 9 is provided in the reflector 5, and in this I mount a cup 10, formed of porcelain, which permits sufficient light to pass through to show the ornamentation on the exterior of the cup 10. The inner surface 12 of the cup 10 is formed to provide a reflecting surface possessing a very high degree of efficiency, to redirect and reflect the light rays upwardly.

The light is enclosed by a member 13, formed of crystal glass, provided with a plurality of prisms 14. As illustrated, they are annular in shape, decreasing in diameter from the bottom 15 to the top 16. The effect of providing prisms on the enclosing member 13 enables the designers to distribute the light rays over the ceiling for such a predetermined distance from the source, as to insure its being flooded with practically uniform intensity, thus obtaining better and more uniform lighting on the working plane.

Though I have shown a specific construction of my invention, it is obvious to persons skilled in the art that many changes in construction may be made within the scope of my invention, and I therefore do not desire to be understood as limiting myself to the precise construction illustrated, except as such limitations may appear in the hereinafter appended claims.

Having described my invention, what I regard as new, and desire to secure by Letters Patent of the United States, is:

1. A lighting fixture, comprising a socket, an electric light bulb, a reflecting shield, having a central opening, a porcelain cup in said opening, and an enclosing member, mounted above said cup, formed of crystal glass, its walls forming a plurality of prisms which distribute the light rays over a predetermined surface of the ceiling.

2. A lighting fixture, comprising a socket, an electric light bulb, a reflecting shield, having a central opening, a porcelain cup in

said opening, an enclosing member formed of crystal glass, mounted above said cup, its walls forming a plurality of prisms which distribute the light rays over a predetermined surface of the ceiling, and means to support said fixture.

3. A lighting fixture, comprising a socket, an electric light bulb, a reflecting shield, having a central opening, a plurality of supports for said reflecting shield, a poreclain cup in said opening, and an enclosing member, mounted above said cup, formed of crystal glass, its walls forming a plurality of prisms which distribute the light rays over a predetermined surface of the ceiling.

4. A lighting fixture, comprising a socket, an electric light bulb, a reflecting shield, having a central opening, a porcelain cup in said opening, into which the light bulb extends, and an enclosing member, mounted above said cup, formed of crystal glass, its walls forming a plurality of prisms which distribute the light rays over a predetermined surface of the ceiling.

5. A lighting fixture, comprising a socket, an electric light bulb, a reflecting shield, having a central opening, a porcelain cup in said opening, into which the light bulb extends, said porcelain being of sufficient density to permit only enough light to pass therethrough to illuminate the lower side of said reflector and the ornamentation on the exterior of said cup, and an enclosing member, mounted above said cup, formed of crystal glass, its walls forming a plurality of prisms which distribute the light rays over a predetermined surface of the ceiling.

6. A lighting fixture, comprising a socket, an electric light bulb, a reflecting shield, having a central opening, a porcelain cup in said opening, the inner surface of said cup providing a reflecting surface of high efficiency, and an enclosing member, mounted above said cup, formed of crystal glass, its walls forming a plurality of prisms which distribute the light rays over a predetermined surface of the ceiling.

7. A lighting fixture, comprising a socket, an electric light bulb, a reflecting shield, having a central opening, a porcelain cup in said opening, into which the light bulb extends, the inner surface of said cup providing a reflecting surface of high efficiency, and an enclosing member, mounted above said cup, formed of crystal glass, its walls forming a plurality of prisms which distribute the light rays over a predetermined surface of the ceiling.

EDWIN F. GUTH.