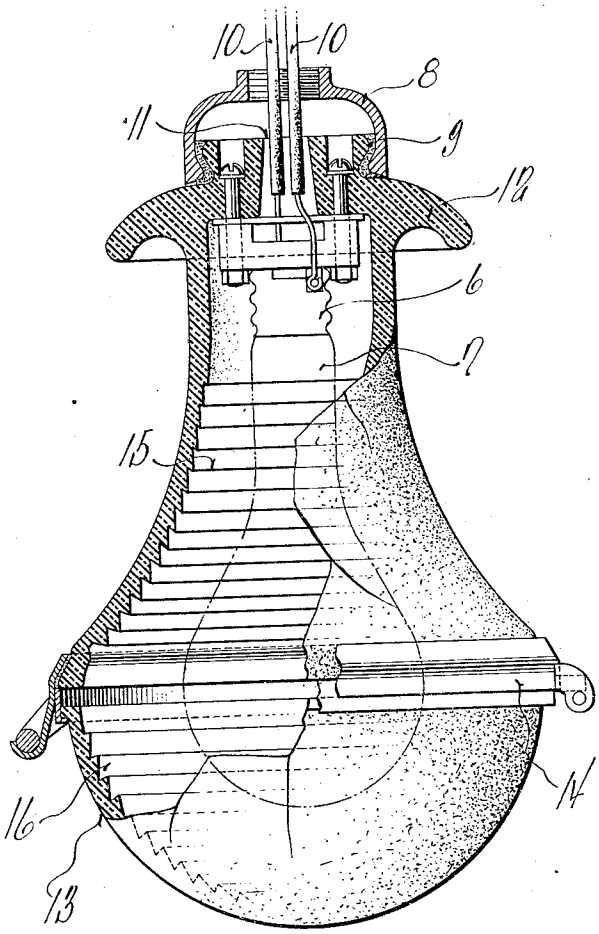
March 17, 1931. G. H. COLE 1,797,050

LIGHTING FIXTURE

Filed April 6, 1929



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LIGHTING FIXTURE

Application filed April 6, 1929. Serial No. 353,157.

This invention relates to certain new and useful improvements in street lighting fixtures.

Heretofore, in lighting fixtures of this type, it has been customary to form the body of the fixture of porcelain, or a suitable metal; but as these substances are opaque much light was lost.

It is, therefore, an object of this invention to provide a lighting fixture having a body formed of transparent insulating material, to increase the amount of useful light.

It is of course known that all the light emitted above the horizontal is useless for street lighting, and therefore it is another object of this invention to intercept and bend downward all upwardly directed light rays.

And a further object of this invention resides in the provision of a lighting fixture of the character described, having a transparent body member whereby a novel luminous and artistic effect is obtained.

With the above and other objects in view which will appear as the description proceeds, my invention resides in the novel construction, combination and arrangement of parts substantially as hereinafter described and more particularly defined by the appended claims, it being understood that such changes in the precise embodiment of the hereindisclosed invention may be made as come within the scope of the claims.

In the accompanying drawing, I have illustrated one complete example of the physical embodiment of my invention constructed according to the best mode I have so far devised for the practical application of the principles thereof, and in which:

The single figure is a view partly in elevation and partly in transverse section taken through a lighting fixture embodying my invention.

Referring now more particularly to the accompanying drawing, the numeral 5 represents the body of a street lighting fixture, which is formed of glass, and is substantially bell shaped. A lamp socket 6 is mounted in the upper portion of the body to receive an incandescent lamp 7.

The fixture is adapted to be connected with a suitable support, not shown, through a metal canopy or hood 8 fixed to the top of the body by cementing, as at 9; and lead wires 10 extending through the hood 8 and an aperture 11 in the body, are connected with the lamp socket to supply current to the lamp. A petticoat 12 preferably extends from the upper portion of the body beneath the canopy to increase the insulating factor of the fixture, as will be readily apparent.

The lower open end of the body 5 is adapted to be closed by a refractor bowl 13 carried by a refractor holder 14 of conventional construction which permits the bowl to be swung into and out of closed position.

The inner surface of the body 5 is formed with horizontal annular prisms 15 and the inner surface of the bowl 13 is likewise formed with horizontal annular prisms 16, so that all of the light of the lamp 7 is directed at a predetermined angle, preferably a few degrees below the horizontal.

From the foregoing description, taken in connection with the accompanying drawing, it will be readily apparent to those skilled in the art to which an invention of the character described appertains, that I provide an improved lighting fixture, in which the body is not only formed of insulating material, but is transparent to increase the amount of useful light, and by which a luminous effect is gained, and an artistic treatment is made possible which cannot be obtained by the use of conventional lighting fixture body members heretofore available.

What I claim as my invention is:

1. In a lighting fixture of the character described, a transparent substantially elongated housing of insulating material having a closed head portion of heavy wall thickness, mounting means secured over the closed head portion, a lamp socket within the housing mounted from the closed head portion and insulated thereby from the mounting means, said socket being adapted to receive an incandescent lamp and the housing wall being disposed juxtapose the lamp and being of a size to enclose the major portion of the lamp, whereby a considerable portion of the light emitted by said lamp passes through the

transparent walls of the housing, and prismatic refracting means integral with the housing for bending the rays of light passing through the housing wall, at a downward angle.

2. In a lighting fixture of the character described, a housing of transparent insulating material forming the body of the lighting fixture, said housing being substantially bell shaped and having a closed head portion of heavy wall thickness, a mounting cap secured over the closed head portion, a lamp socket within the housing mounted from the closed head portion and insulated thereby from the mounting cap, said lamp socket being adapted to receive an incandescent lamp, the bell shape of the housing disposing its walls close to the lamp and said housing being of a size to enclose the major portion of the lamp whereby a substantial portion of the light emitted by the lamp passes through the transparent walls of the housing, and prismatic refracting means formed integral with the housing and on the inner wall thereof for bending the light rays emitted by the lamp and passing through the housing walls at a downward angle.

In testimony whereof I have hereunto affixed my signature.

GEORGE H. COLE.