P. M. HOTCHKIN.

ILLUMINATING DEVICE.

APPLICATION FILED OCT. 22, 1913.

1,100,880. Patented June 23, 1914.

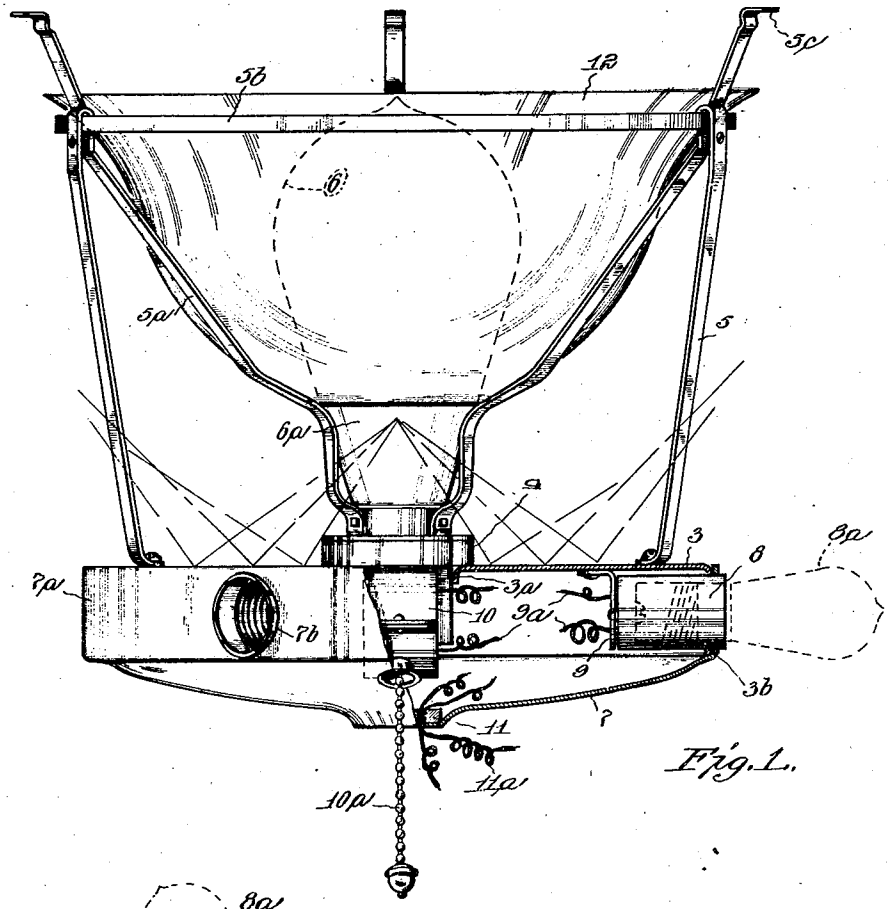


Fig. 1.

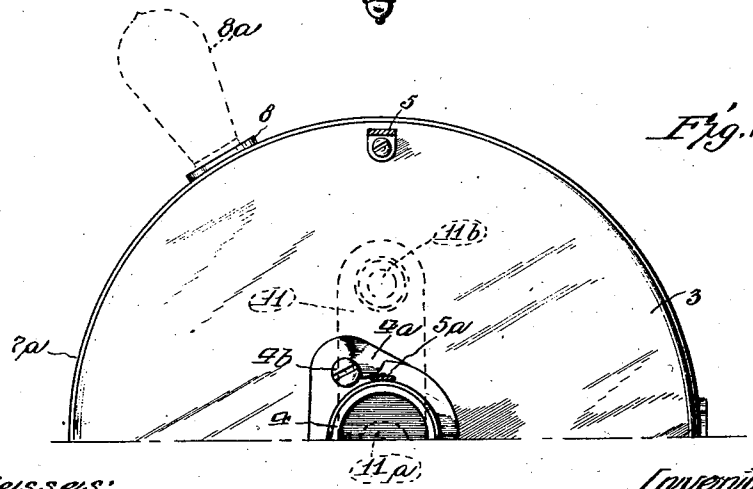


Fig. 2.

Witnesses:

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UNITED STATES PATENT OFFICE.

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ILLUMINATING DEVICE.

1,100,880. Specification of Letters Patent. Patented June 23, 1914.

Application filed October 22, 1913. Serial No. 796,572.

To all whom it may concern:

Be it known that I, PAUL M. HOTCHKIN, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Illuminating Devices, of which the following is a specification.

This invention relates to improvements in lighting fixtures or devices of the type designed to provide what is known as indirect or semi-indirect illumination, in that the reflectors employed throw the light upwardly and outwardly against the ceiling and side walls from which the light rays are deflected.

The especial object of the improvements embodied herein is to provide a lamp and reflector holder especially adapted for connection with a pedestal or stand, and comprising a plurality of lamps and reflecting surfaces, all of which combine to furnish both indirect and direct illuminating effects.

A further object of the improvements herein set forth is to provide a lamp and reflector holder of economical construction and one that may be readily adapted to the various uses required thereof.

In the accompanying drawing which forms a part of this application, I have illustrated my invention in a preferred form in the following views:—

Figure 1 is a view partly in elevation, and partly in section, of a complete lighting unit constructed according to my invention, and Fig. 2 is a partial top plan and cross-sectional view of Fig. 1.

Referring to the details of the drawing, the reference character 3 represents a metal shell, the outer surface of which is provided with a suitable enamel adapted to provide a light reflecting surface. In the center of the shell is a hole bound by a downwardly turned annular flange 3^a and at the periphery of the shell is a vertical flange 3^b. Secured within the central opening of the shell 3 is a socket or collar 4, which is formed with notches 4^a to receive the attaching screws 4^b, one of said notches and screws being shown in Fig. 2.

5 represents thin metal bars which are secured at their lower ends to the upper side of the shell 3 and at their upper ends engage and support a ring 5^b. Ribs 5^a are secured at their lower ends to the upper face of the socket 4 and terminate at their upper ends in hook shaped portions 5^c and are secured just below said ends to the ring 5^b. The bars or ribs 5, 5^a, together with the ring 5^b serve to support the reflector 12 and also any suitable transparent or translucent shade which may be used to surround the fixture and which it may be desirable to illuminate. The lamp 6 is screwed into the socket 4 in the usual manner and passes through a suitable opening provided therefor in the bottom of the reflector 12, so that when in position the major portion of the lamp will be within the bowl of the reflector 12, the latter having an internal reflecting surface which will catch and reflect the rays upwardly and outwardly from said lamp. The lower portion of the lamp, represented by the reference character 6^a, is exposed below the reflector 12, as clearly shown in Fig. 1, and such light as may radiate from the same will be caught by the reflecting surface of the shell 3 and thrown upwardly and outwardly as indicated by dotted lines in Fig. 1. Below the shell 3 and fitted to the flange 3^b is a cup shaped plate 7 having a vertical flange 7^a, which, together with the shell 3, forms an inclosure for the wiring and customary contacts 9, 9^a, through which electricity is conducted to the filaments of the lamp 6 and other lamps which may be inserted in the plugs 8 which are screwed into the sockets 7^b provided in the vertical walls of the shell 3 and plate 7.

Arranged within the shell 3—7 is a switch 10 of well known commercial form supplied with a switch operating pendant chain 10^a, said switch being connected with the wires 9^a and adapted to effect the desired contacts so as to illuminate either the lamp 6 or the lamps 8^a or all of said lamps as may be desired. The conductor wires 11^a pass through a collar secured in an opening at the bottom of the plate 7 at which if desired the standard of any suitable construction may be applied.

In a device such as described and illustrated it will be obvious that the greatest light flux will be reflected from the upper and main reflector 12 without interruption to the ceiling of the room in which the lamp is used while a minor portion of the light will be thrown against the screen which will be hung from the terminals 5^c of the frame 5, 5^a, 5^b, and that a much reduced illumination will be provided by the lamps 8^a which

are small and of low wattage, a portion of the light from said lamps 8^a being cast downwardly upon the surface over which the lamp is placed.

It will be obvious that if it be desired to use the fixture described as a suspended lamp the suspending chains may be connected with the terminals 5^c, or any suitable substitute therefor, the particular construction of the frame being no part of this invention, hence I have not shown my improved lamp either as suspended or in connection with a standard.

The shade supporting frame 5, 5^a, 5^b, is shown merely to indicate a preferred form of shade support which is also adapted to sustain the reflector 12 and is attachable to the shell 3. The forms of lamp sockets and switch do not constitute a part of my invention *per se*.

Having thus described my invention what I claim as new is:—

1. An illuminating device comprising a hollow shell having lamp receiving sockets therein, and a reflecting surface adapted to reflect rays of light upwardly and outwardly therefrom, a reflector bowl arranged above said shell and having an opening in its bottom, means for supporting said bowl from said shell, and a lamp secured to said shell and extending through said opening in the reflector bowl, said lamp having a portion exposed below said reflector bowl.

2. In an illuminating device comprising a hollow shell having a central and radial lamp receiving sockets therein, and a reflecting surface adapted to reflect rays of light upwardly and outwardly therefrom, a reflector bowl arranged above said shell and having an opening in its bottom, means for supporting said bowl upon said shell, said means also being adapted to support a lamp shade, a lamp secured to the central socket on said shell and extending through said opening in the reflector, said lamp having a portion exposed below said reflector bowl, lamps secured in said radial sockets, and manually controlled means for conducting electricity to said lamps.

In testimony whereof I affix my signature in the presence of two witnesses.

PAUL M. HOTCHKIN.

Witnesses:
ESTELLA WOLFF,
MARTHA WUNDERLICH.