

May 1, 1923.

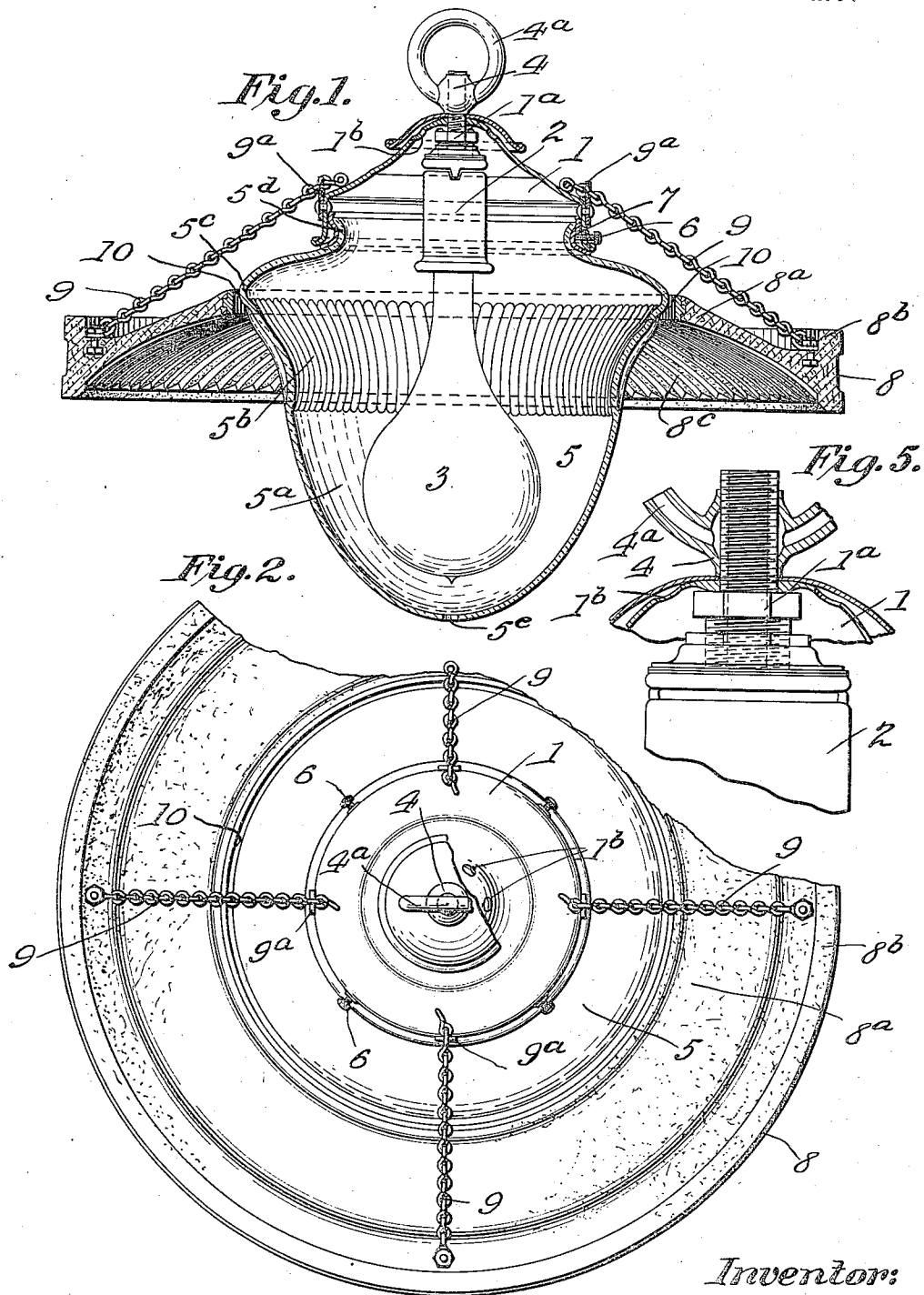
1,453,794

J. W. HANCOCK

ELECTRIC LIGHT FIXTURE

Filed April 18, 1922

2 Sheets-Sheet 1



Inventor:
John W. Hancock,
by *Spencer Middleton Donaldson & Hall*
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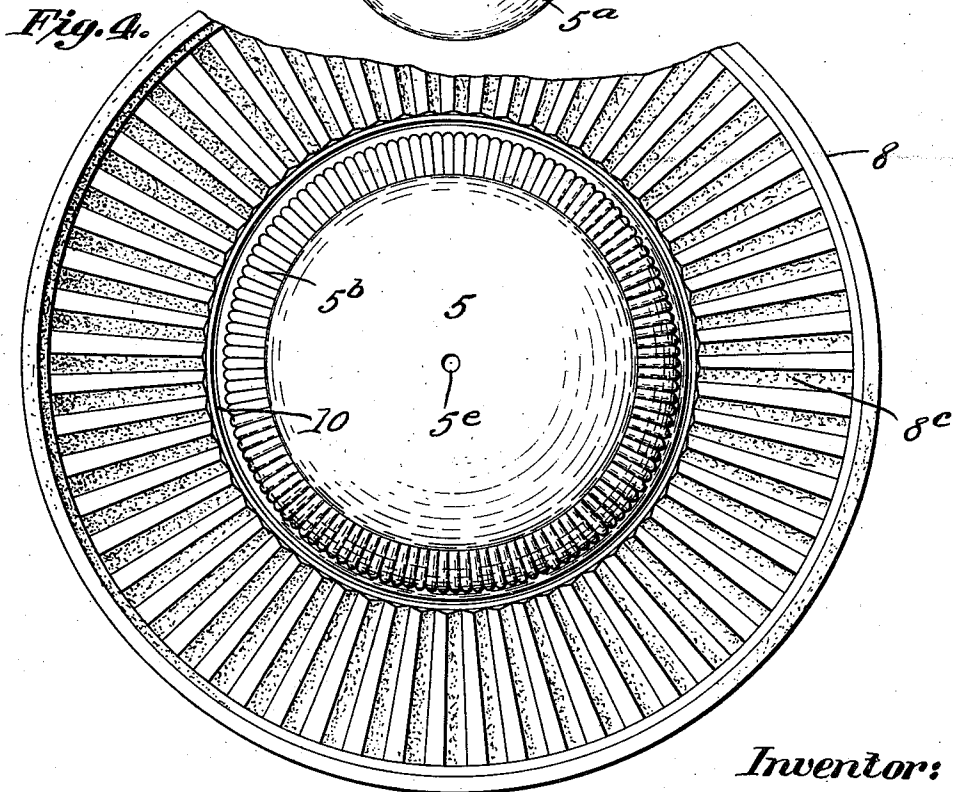
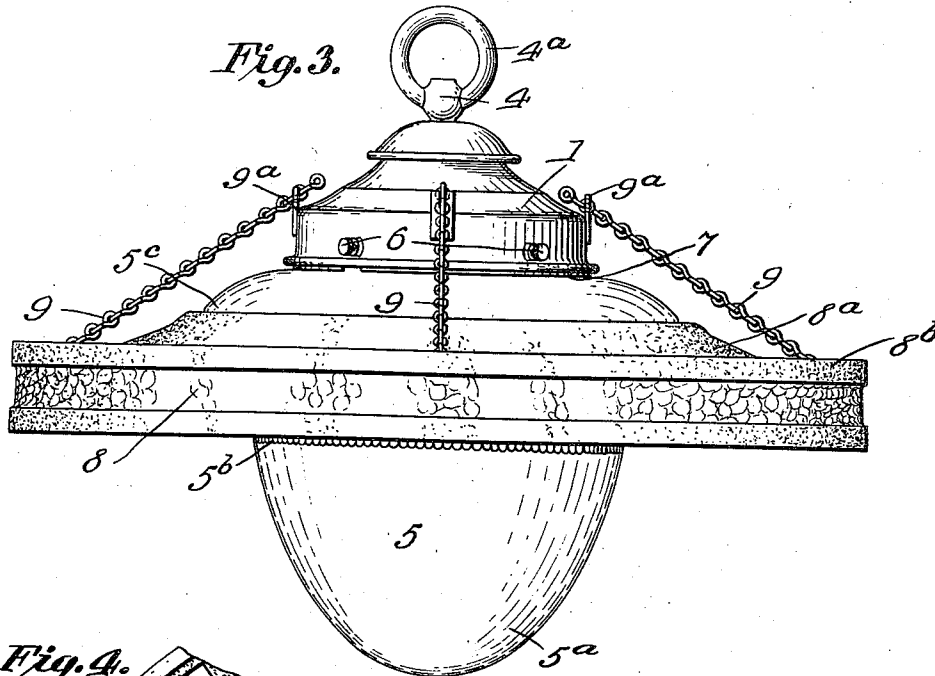
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UNITED STATES PATENT OFFICE.

JOHN WALLACE HANCOCK, OF DENVER, COLORADO.

ELECTRIC-LIGHT FIXTURE.

Application filed April 18, 1922. Serial No. 554,631.

To all whom it may concern:

Be it known that I, JOHN W. HANCOCK, a citizen of the United States, and resident of Denver, in the county of Denver, in the State of Colorado, have invented certain new and useful Improvements in Electric-Light Fixtures, of which the following is a specification.

My said invention relates to improvements in electric light fixtures of the type in which a globe enclosing the light bulb is combined or associated with a reflector.

One object of the invention is to provide a construction by which an opaque non-breakable reflector may be used and in which the parts will be so arranged that sufficient light will be transmitted or diffused upwardly to prevent any shadow being thrown on the ceiling.

Another object is to provide for the use of a larger reflector than has heretofore been deemed practicable.

A further object is to so construct and arrange the parts that the liability of dust settling on the face of the globe and reflecting face of the reflector will be reduced to a minimum.

With these and other objects in view the invention includes the novel features of construction and arrangement and combination of parts hereinafter described, the nature and scope of my invention being defined by the claim appended hereto.

An embodiment of my invention is illustrated in the accompanying drawings in which

Fig. 1 is a transverse vertical section through my improved fixture.

Fig. 2 is a plan view partly broken away.

Fig. 3 is a side elevation.

Fig. 4 is a bottom plan view partly broken away, and

Fig. 5 is an enlarged sectional detail.

Referring by reference characters to these drawings the numeral 1 designates a metal holder which is provided with a screw threaded nipple 1^a designed to detachably connect with and support the socket member 2 of the ordinary electric light bulb designated 3.

The holder 1 is of substantially dome shape and is adapted to support the globe and reflector in the manner hereinafter described and the nipple 1^a is in the form of a relatively short tube having a threaded exterior onto the upper end of which the

collar 4 is screwed, which collar carries the suspending ring 4^a. Nipple 1^a is screwed into a correspondingly threaded and preferably reinforced opening in the top of the holder 1 and by screwing the nipple up or down the lamp bulb may be adjusted and thereafter locked in position by tightening the collar 4.

The holder or hood 1 is preferably provided at its upper end around the nipple with a plurality of annularly arranged ventilating or draft openings 1^b and a dome shaped shield overlies these, being clamped in position between the apex or crown of the holder and the clamping collar.

The globe is indicated at 5 and is preferably of the shape and construction shown having a substantially pear shaped lower portion 5^a, surmounted by a fluted and outwardly curved or flared band 5^b above which the globe curves or turns inwardly as at 5^c, terminating at the top in an outwardly turned edge forming an annular channel 5^d which receives the ends of the set screws 6 by which the globe is detachably secured to the holder in the manner well understood by those skilled in the art.

Preferably I place in the channel 5^d a metal band or ring 7 against which the ends of the screws impinge and thereby prevent any danger of breakage of the globe.

The globe 5 is of course made of glass, preferably frosted or ground. Cooperating with this is a reflector 8 which is preferably of the shape shown of annular or ring form and comprising a downwardly flaring main portion 8^a and an annular peripheral flanged portion 8^b, preferably extending above and below the top and bottom of the main portion.

This reflector I make of a practically non-breakable composition molded or pressed to the desired shape, its under surface being fluted as indicated at 8^c, and said under surface, and the outer periphery being painted, enameled or glazed to present a white reflecting surface. The composition which I use is comparatively light and being non-breakable it may be made of a relatively large diameter without danger of breakage in shipment which is a serious drawback to glass reflectors or diffusers, while due to its lightness it does not add material weight to the fixture. Being opaque, if the reflector joined the holder, a shadow would be cast on the ceiling which would be objectionable.

It is to avoid this that I make the globe of the shape shown and support the reflector so that a material portion of the globe projects above the reflector so that the portion 5° between the edge of the holder and the inner edge of the reflector is exposed and diffuses the light upwardly and prevents the formation of any shadows.

The reflector may conveniently be supported by chains 9 secured at one end to the outer edge of the reflector and at the other to the holder, preferably by detachably connecting them to the clips 9^a.

The inner edge of the reflector is spaced from the outer periphery of the globe to provide an annular passage 10 which permits a draft of air under the heating influence of the lamp.

This causes any dust which may be in the air to pass upward through this channel and prevents it being deposited on the globe and surface of the reflector and hence prevents obstruction of the passage or reflection of the light.

Preferably the bottom of the globe is

provided with an air inlet opening 5° so that air can enter therethrough and pass upward around the light bulb and out at the openings in the top of the holder.

Having thus described my invention, what I claim is:

A lighting fixture including a globe holder suspended from a ceiling, a translucent globe secured thereto, lighting means within the globe, an opaque reflector of relatively small height surrounding said globe and spaced therefrom, said globe projecting above and below said reflector whereby diffused light is thrown on the ceiling by that portion of the globe above the reflector, and diffused light from that portion of the globe below the reflector is reflected downwardly toward the floor, the relatively small height of the reflector allowing light rays to meet on each side thereof, whereby shadows from the reflector are dispelled, said reflector being supported from the globe holder.

In testimony whereof, I affix my signature.

JOHN WALLACE HANCOCK.