

UNITED STATES PATENT OFFICE.

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LIGHT SUPPORT.

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In factories and other locations where the lighting supports are subject to excessive vibration, incandescent electric light bulbs are of extremely short life due to destructive effect of the vibration on the delicate filaments of the light bulbs.

The present invention relates to a support for a lighting fixture having yielding or shock absorbing features whereby the vibration is absorbed and the destructive effect on the lighting filaments practically eliminated. The structure consists of a spring loop which is open at the ends of the spring, one end of the spring being most conveniently connected to the outlet nipple and the other to the fixture.

The conducting cord or insulated cable is most conveniently supported on the spring as a guide.

In the accompanying drawings I have illustrated a support embodying the features of my invention in the preferred form.

In the drawing:

Figure 1 is an elevation of the fixture support showing a socket, a light bulb and shade supported thereby in operative position.

Figure 2 is an elevation looking from the right in Figure 1, the socket being broken away intermediately and the bulb and shade thereby removed.

Figure 3 is a perspective of the flexible supporting or shock absorbing element.

Figure 4 is an elevation on a reduced scale of a modified construction, the view corresponding to Figure 1, with outlying parts broken away for convenience of illustration.

Referring to the drawings by numerals, each of which is used to indicate the same or similar parts in the different figures, the drawing shows a lighting bracket or support, the same consisting of an arcuate tubular fitting 1 supported on an outlet nipple 2, the nipple being threaded externally at 3 and the fitting being threaded internally to engage the same, or any suitable engaging means may be used. This fitting supports a spring 4 in the form of a loop which is preferably a circular arc having oppositely projecting engaging means or ends 5 and 5', which, as shown, are in a plane which is substantially tangential to the curve of the spring.

The fitting 1 is provided with means for engaging the upper projecting portion 5 of

the spring 4, the said engaging means in the form shown in Figure 1 being a hook 6 which enters and engages an eye 7 in the spring.

The spring 4 in turn supports at and by its opposite end 5' a second arcuate or other suitable tubular fitting 8, which is provided with means, shown in Figure 1, in the form of a hook 10 connecting to the depending engaging portions or end 5' of the spring loop 4, the said end 5' being preferably provided with an eye 11 through which the point of the hook is passed.

The fitting 8 has a threaded, or any preferred engagement 9 at its lower end with a socket or sockets 12 or any suitable lighting fixture. The single socket shown supports a lighting bulb 14 and a shade 15.

Current is supplied by means of a suitable conductor, shown in the form of a flexible insulated cable 16 which is led downwardly from a source or outlet box through the nipple 2 to the upper fitting 1 from which fitting the cable is passed around the spring loop 4, being supported and guided thereby on the outer surface of the same remote from the ends 5 and 5', the loop serving as a guide and support for the cable, as shown, though this arrangement is not essential. The cable 16 is led from the loop to and through the lower fitting 8 to the socket or sockets 12.

The socket, shade, bulb, etc., being of sufficient weight to slightly flex the spring, obviously vibrations of the building, floor or ceiling 18, which carries the upper fitting and the nipple 2, are under these circumstances taken up by the spring and their intensity so reduced and their peaks so equalized as to eliminate the harmful effect on the filament 19 of the light bulb, which in the absence of such feature, is quickly destroyed when subjected to the conditions described.

In Figure 3 I have disclosed a different form of the invention in which the spring loop 4 is connected to the arcuate fittings 21 and 22 by means of bolts 24 passed through the eyes 5 and 5' in the spring loop and through registering holes in lugs 25 projecting from the fittings 21 and 22.

While the term "arcuate fittings" has been used descriptively as distinguishing the fittings 1, 8, 21 and 22, this is not intended

as a limiting term, but is used for convenience in describing any fitting suitable for the purpose in hand.

I have thus described specifically and in detail a preferred and a different embodiment of the invention in order that the nature and operation of the invention and the manner of using the same may be clearly understood, however, the specific terms herein are used descriptively rather than in a limiting sense, the scope of the invention being defined in the claims.

What I claim as new and desire to secure by Letters Patent is:

1. A support for electric light bulbs comprising an open spring loop having free spaced ends, fittings connected to the opposite ends of the loop, an outlet nipple connected to one said fitting and means for supporting a bulb socket on the other fitting, the loop comprising guiding and supporting means for substantially the entire length of the cable between the fittings.

2. An electric light bracket comprising a

tubular fitting having a hook and adapted to engage an outlet nipple, a plate spring open loop having a projecting end with an eye to engage the hook, a second tubular fitting also having a hook, the other end of the plate spring having an eye to engage the same, bulb supporting means connected to the second fitting and a conducting cable lead through said fittings and guided and supported on the circumference of the spring.

3. A support for electric light bulbs comprising an open spring loop having the ends spaced and free to move with the flexing of the spring, the free ends of the spring being provided with eyes and the support comprising an electric fitting for each end of the loop, each said fitting having a hook adapted to engage the eye at the corresponding end of the fitting.

Signed by me at Baltimore, Maryland, this 27th day of December, 1926.,

EDWIN H. GRIFFITH.