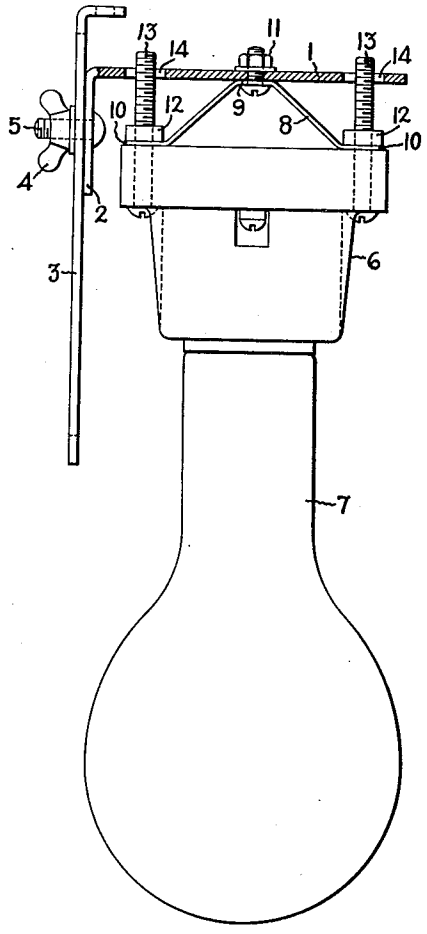
May 10, 1932. H. J. FLAHERTY 1,857,185

VIBRATION ABSORBING MOUNTING

Filed Nov 24, 1930



Inventor:
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VIBRATION ABSORBING MOUNTING

Application filed November 24, 1930. Serial No. 497,777.

The present invention relates to a means for mounting a member on its support whereby any vibrations which might be imparted to the member by the support will be absorbed by the mounting.

The mounting means is particularly applicable in connection with the supporting of an incandescent lamp or similar article and while the invention is herein shown and described as applied to a support for an incandescent lamp, it is to be understood that its use is not so limited and that it may be applied to any apparatus which is to be supported in an antivibrational manner.

Incandescent lamps which are used on bridges, in factory buildings, and similar places, are subject to heavy and frequent jarring with the resultant effect that the lamps are vibrated and the filaments broken. The life of a lamp used under such conditions is naturally shorter than it would be if it were not subject to the vibrations of the supporting structure, thus necessitating a more frequent replacement of the lamps, which results in increased cost. It is clear that if the lamps are so mounted in their supporting members that they will not receive the jars imparted to the supporting member and will not be subject to vibrations therefrom, they will last longer and will not be broken so easily.

The object of the invention, accordingly, is to provide a mounting means for an incandescent lamp or similar device which shall act to absorb any vibrations which might be imparted to the lamp due to any jarring of the lamp support.

For a consideration of what I believe to be novel and my invention, attention is directed to the accompanying specification and the claims appended thereto.

In the drawing, the figure is a view, partly in section, showing the mounting means applied to a support for an incandescent lamp.

Referring to the figure, there is shown a supporting plate 1, one end of which is bent angularly to form a depending portion 2. The supporting plate 1 is adapted to be adjustably positioned relative to a slotted bracket 3, and is clamped in adjusted position by fastening means comprising a wing nut 4 and a bolt 5, carried by the depending portion 2 and extending through the slot in the bracket 3.

The plate 1 acts as a support for a lamp socket 6, of any suitable construction, which carries the lamp 7. The lamp socket is secured to the plate 1 by means of a substantially V-shaped spring member 8, which is flattened at the apex of the V, as shown at 9, and which has the ends of the arms of the V bent angularly, as shown at 10, to lie in a plane parallel to the flattened portion of the apex. The portion 9, of the spring member, is secured to the supporting plate 1 by suitable fastening means 11 and the portions 10 rest on the base of the socket 6. On the side opposite the lamp socket, the portions 10 are provided with bushings 12, each having a threaded bore centrally thereof, in alignment with perforations in the portions 10. Screws 13 pass through the base of the socket, through the perforations in the portions 10 of the spring member and through the threaded bores of the bushings, thereby securing the socket to the spring member 8. The screws are of such length as to pass through clearance openings 14 in the supporting plate 1.

With the parts arranged as described, the lamp is resiliently supported on the plate 1 and any jarring or vibrating of the supporting plate will not be transmitted to the lamp but will be taken up by the spring member. When the lamp is being screwed into the socket, there is a tendency for the socket to rotate relative to the supporting plate which would twist the spring member and bend it out of shape, but such twisting is prevented by the screws 13 extending through the openings 14 in the supporting plate 1.

In accordance with the provisions of the patent statutes I have shown and described what I now consider to represent the best embodiment of my invention, but it is to be understood that the structure shown is merely illustrative and that the invention may be carried out by another means.

What I claim as new and desire to protect by Letters Patent of the United States is:

1. In combination, a support, a substantially V-shaped spring member secured at its apex to said support, a supported member and means carried by the supported member for attaching the ends of the arms of the spring member thereto, said last named means extending through the spring member and engaging said support to prevent relative rotation between said support and said supported member.

2. In combination, a supporting plate, a substantially V-shaped spring member secured at its apex to said plate, the ends of the arms of said spring member being provided with threaded perforations, a supported member, and screws carried by said supported member coacting with the threaded ends of the spring member to attach the supported member to the spring member, said screws being adapted to engage said supporting plate to prevent rotation of the supported member relative to the supporting plate.

3. In combination, a supporting plate provided with clearance openings therein, a substantially V-shaped spring member secured to said plate at a point between and in line with the clearance openings, the ends of the arms of said spring members having threaded perforations in vertical alignment with the clearance openings, a member to be supported, and screws carried by said member to be supported and projecting therefrom, said screws having engagement with the threaded ends of the spring member to attach said member to be supported to said spring member, the free ends of the screws being adapted to pass through the clearance openings in said supporting plate.

In witness whereof I have hereunto set my hand this 20th day of November, 1930.

HAROLD J. FLAHERTY.