Sept. 1, 1931. K. A. SAWIN 1,821,406

SHOCK ABSORBING ELECTRIC FIXTURE

Filed March 13, 1929

Fig. 1.

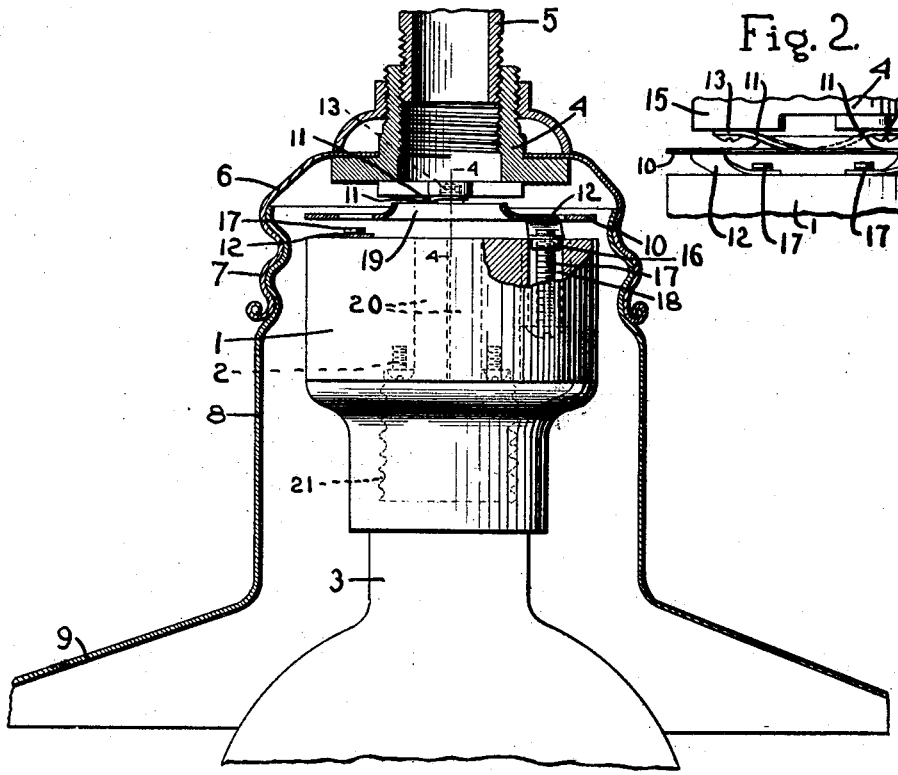


Fig. 2.

Fig. 3.

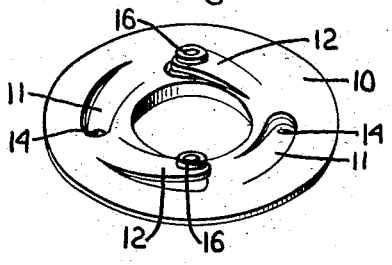
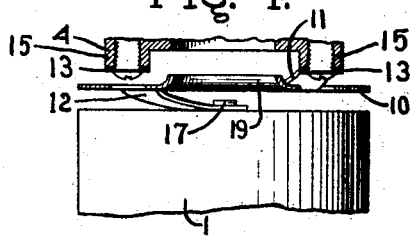


Fig. 4.



Inventor
Kenneth A. Sawin
by Heard Smith & Tennant.
Attys.

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UNITED STATES PATENT OFFICE

KENNETH A. SAWIN, OF WINTHROP, MASSACHUSETTS, ASSIGNOR TO WHEELER REFLECTOR COMPANY, OF BOSTON, MASSACHUSETTS, A CORPORATION OF MASSACHUSETTS

SHOCK-ABSORBING ELECTRIC FIXTURE

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This invention relates to electric fixtures and particularly to novel shock-absorbing means which is designed to absorb vibrations which may be transmitted to the supporting member and thus prevent said vibration from reaching the lamp filament.

One of the objects of the invention is to provide a shock-absorbing element which can be easily interposed between the lamp socket member and the supporting member.

The features wherein the invention resides will be more fully hereinafter set forth and then pointed out in the appended claims.

In the drawings wherein I have illustrated a selected embodiment of my invention, Fig. 1 is a sectional view through an electric light fixture showing my improved shock-absorbing means, the lamp socket member being shown in elevation;

Fig. 2 is a fragmentary side view of the shock-absorbing member, said view illustrating portions of the supporting member and the lamp socket member;

Fig. 3 is an under side perspective view of the shock-absorbing member;

Fig. 4 is a fragmentary view showing the shock-absorbing member in section, the section being taken on the line 4—4, Fig. 1.

In the drawing 1 indicates the lamp socket member which is usually of porcelain or other insulating material and which is provided with usual wiring terminals 2 to which the wires are led through openings or passages 20, and with the usual screw-threaded socket 21 to receive the lamp or bulb 3. 4 indicates a supporting member by which the lamp socket member is supported, said supporting member being herein shown as secured to the end of a pipe or conduit 5 by which the fixture is carried and which also furnishes a conduit through which the wires (not shown) are led to the wiring terminals.

In the illustrated embodiment of the invention the supporting member 4 is provided with a cap-shaped member 6 having the skirt portion 7 provided with a thread rolled therein and to which the neck 8 of the reflector 9 may be screw-threaded.

The parts thus far described are or may be all as usual in electric light fixtures of this type and form no part of any present invention, which relates particularly to shock-absorbing means interposed between the lamp socket member 1 and the support 4 and which not only furnishes a support for the lamp socket member but also absorbs any vibrations transmitted to the support 4 and thus prevents them from being carried to the filament of the lamp 3.

The shock-absorbing member herein shown is provided with one or more resilient arms which are secured to the support 4 and one or more other resilient arms which are secured to the lamp socket member 1 and by which the latter is suspended. The shock-absorbing member is indicated generally at 10 and it is in the form of a disk of metal from which is struck up a plurality of arms, part of the arms being struck up from one side of the disk and part from the other. In the particular embodiment illustrated there are two arms 11 struck up from the bottom of the disk so that the arms project above, and two arms 12 struck up from the top of the disk so that said arms project below.

The upwardly-bent arms 11 are disposed opposite to each other and they are secured to the supporting member 4 in some suitable way as by means of screws 13, the arms 11 being provided with apertures 14 through which the screws may pass. The other arms 12 which are struck up from the upper side of the disk project downwardly and are secured to the lamp socket member 1. The lamp socket member is thus suspended from the arms 12 while the shock-absorbing member 10 is in turn suspended from the supporting member 4 through the arms 11.

Both the arms 11 and 12 are more or less resilient and there is thus a resilient connection between the lamp socket member 1 and the supporting member 4 which will absorb the vibrations transmitted to the shock-absorbing member and thus prevent them from being carried to the lamp socket member.

The supporting member is shown as formed with two bosses 15 to which the arms 11

are secured and the arms 12 of the shock-absorbing member are illustrated as formed at their ends with bosses 16 which have screw-threaded apertures therein and which form a suitable anchorage for the screws 17 by which the shock-absorbing member is secured to the lamp socket member. These screws 17 are inserted through apertures 18 in the lamp socket member from the lower side thereof and the upper ends of the screws are screw-threaded into the screw-threaded openings in the bosses 16.

The disk 10 is provided with a central opening 19 through which the circuit wires may be led to the wiring terminals of the lamp socket member 1.

The device is extremely simple in its construction and can be inexpensively manufactured. It can also be easily installed and forms an effective shock-absorbing means for preventing vibration from being transmitted from the supporting member 4 to the lamp socket member 1.

I claim.

1. In an electric light fixture, the combination with a supporting member, of a lamp socket member, a shock-absorbing member presenting a disk-like body having integral therewith two upwardly-inclined resilient arms and also two downwardly-inclined resilient arms, means for securing the ends of the upwardly-inclined arms to the supporting member, and means to connect the other arms to the lamp socket member.

2. In an electric light fixture, the combination with a supporting member, of a lamp socket member, a shock-absorbing member presenting a disk-like body having integral therewith two resilient arms which incline upwardly from the opposite sides of said body in opposite directions, and also having integral therewith two other resilient arms which incline downwardly from said body, means to secure the upwardly-inclined arms to the supporting member, and means for securing the downwardly-inclined arms to the lamp socket member.

In testimony whereof, I have signed my name to this specification.

KENNETH A. SAWIN.