

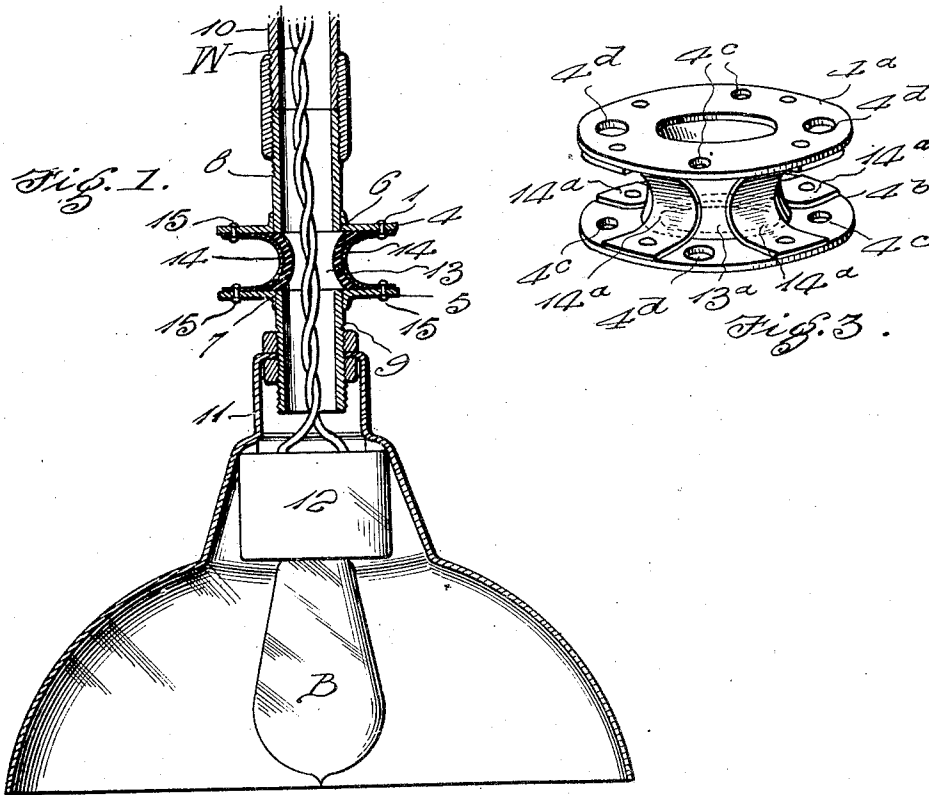
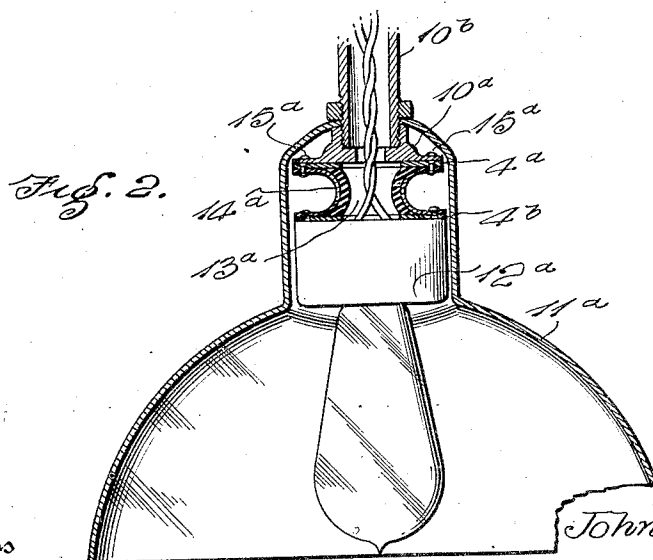
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YIELDABLE BULB SOCKET SUPPORT

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UNITED STATES PATENT OFFICE.

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YIELDABLE BULB-SOCKET SUPPORT.

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The invention aims to provide a new and improved yieldable support for all types of electric light sockets, as used in shops, factories, on oil well rigs, and other places where vibration has a tendency to break or injure the filament of the electric light bulbs, the construction being such that the device readily absorbs the shocks which are otherwise injurious.

With the foregoing in view, the invention resides in the novel subject matter hereinafter described and claimed, the description being supplemented by the accompanying drawing.

Fig. 1 is a vertical sectional view showing the construction used when the device is installed at the exterior of the bulb reflector.

Fig. 2 is a view similar to Fig. 1 but showing the construction employed for use at the interior of the reflector.

Fig. 3 is a perspective view of the shock absorbing device as shown in Fig. 2.

In Fig. 1, the numerals 4 and 5 designate two flat, spaced, stamped metal disks having central openings 6 and 7 respectively, in which upper and lower nipples 8 and 9 are secured in any desired manner, these nipples being externally threaded for connection with a wire conduit 10 and a reflector 11 respectively. Within the reflector, a socket 12 for a bulb B, is shown, and the current-conducting wires W leading to said socket, pass through the conduit 10 and through the nipples 8—9 as shown. These wires also extend through a yieldable sleeve 13 which is interposed between and abuts the disks 4—5, in alinement with the nipples 8—9, said sleeve being preferably formed of rubber and being held under longitudinal compression in order to insure tight contact with the disks, around the edges of their openings 6—7.

C-shaped strips 14 of spring metal, are disposed between the disks 4—5 and are spaced apart around the sleeve 13, the arms of the said strips being secured to the disks by rivets or the like 15 and being disposed radially, while the arm-connecting portions of said spring strips abut the sleeve 13 to hold it in place, said sleeve preferably conforming to the curvature of said arm-connecting portions.

The construction above described, provides an effective, shock-absorbing support

for the socket 12 and its bulb B, and hence prevents injury to the latter from numerous shocks and jars. Not only does the sleeve 13 form part of the shock-absorbing supporting means for the bulb and socket, but it constitutes a part of the encasing means for the wires W, protecting them against moisture and in other ways also.

The construction shown in Figs. 2 and 3 is very similar to that illustrated in Fig. 1. In these views, the upper and lower disks 4^a—4^b are connected with each other by spring strips 14^a, and a sleeve 13^a is also provided, said strips and sleeve being identical with the corresponding portions above described. The disk 4^b is secured by screws 15^b to the socket 12^a, and disk 4^a is fastened by rivets or the like 15^a to a coupling 10^a on the wire-receiving conduit 10^b, said coupling and the shock-absorbing means being disposed within the upper portion of the reflector 11^a. This form of construction is also of advantage for yieldably supporting the socket 12^a and preventing injury thereto from a number of causes.

Each disk 4^a—4^b is preferably formed with a plurality of openings 4^c to receive fasteners for securing said disks to other parts, and in order that the fasteners of one disk or the other may be readily accessible, these disks preferably have larger openings 4^d formed therein in alinement with the openings 4^c.

As excellent results are obtainable from the details disclosed, they are preferably followed. However, within the scope of the invention as claimed, variations may be made.

I claim:—

1. A yieldable support for a bulb socket, comprising two spaced disks having central openings through which to pass current-conducting wires, a yieldable sleeve between said disks having its ends disposed in contact therewith around said openings, and spring means between said disks around said sleeve, said spring means being connected with said disks.

2. A yieldable support for a bulb socket, comprising two spaced disks having central openings through which to pass current-conducting wires, a yieldable sleeve between said disks having its ends disposed in contact therewith around said openings, and C-shaped strips of spring metal disposed be-

tween said disks and having their arms positioned radially and secured to said disks, the arm-connecting portions of said strips being disposed inwardly toward said sleeve to retain the latter in its proper position. 15

3. A yieldable support for a bulb socket, comprising two spaced disks having central openings through which to pass current conducting wires, two nipples secured to said disks respectively around the edges of said openings, said nipples having threaded outer ends, a yieldable sleeve between said disks and abutting the same, said sleeve 10

being alined with said nipples, and springs between and secured to said disks. 15

4. A yieldable support for a bulb socket comprising two spaced discs having central openings through which to pass current conducting wires, and a plurality of flat spring metal strips, each having a single bend imparting to it a C-shape, said C-shaped strips being disposed between and secured to said discs with their bends projecting toward the centers of the latter. 20

In testimony whereof I have hereunto affixed my signature. 25

JOHN M. PETTUS.