

E. E. HAYWARD.
ELECTRIC LIGHT FIXTURE.
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965,710.

Patented July 26, 1910.

Fig. 2.

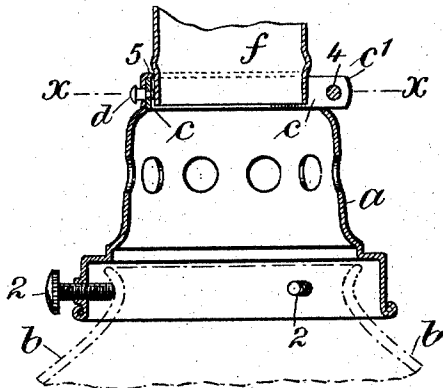


Fig. 1.

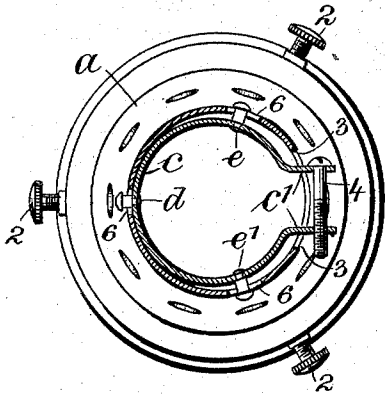
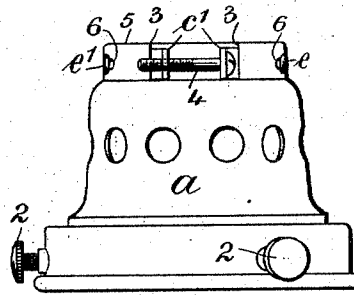


Fig. 3.

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his atty

Witnesses
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UNITED STATES PATENT OFFICE.

EDWIN E. HAYWARD, OF WATERBURY, CONNECTICUT, ASSIGNOR TO THE PLUME & ATWOOD MFG. CO., OF WATERBURY, CONNECTICUT, A CORPORATION OF CONNECTICUT.

ELECTRIC-LIGHT FIXTURE.

965,710.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWIN E. HAYWARD, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented an Improvement in Electric-Light Fixtures, of which the following is a specification.

My invention relates to attachable and detachable metal shade holders for incandescent electric lamps and particularly to the means for connecting the shade holder to the lamp socket, with the object of effecting a uniform support circumferentially of the socket and a central or axial line of coincidence between the respective parts.

Heretofore in this art the upper end of the bell-shaped metal shade holder has been provided with a band of spring metal having free out-turned ends held by an adjusting clamping screw; the band opposite to said screw being secured by a rivet to the holder, consequently the rivet was the only means of support between the socket and holder, and in connecting said parts it has been substantially impossible to maintain corresponding axial alinement between the parts.

My invention relates particularly to the clamping band of the metal shade holder, and in carrying out my invention I connect this band to and support it from the upper part of the shade holder at several substantial equi-distant places by suitable means such as slidable studs riveted to the band and movable through openings in the shade holder, all of which is hereinafter more particularly described.

In the drawing, Figure 1 is an elevation of my improved shade holder. Fig. 2 is a vertical section of the same and also a section of the lower end of the lamp socket, and Fig. 3 is a sectional plan at about the dotted line *x, x*, of Fig. 2 without the portion of the lamp socket.

a represents the bell-shaped shade holder which, *per se*, is of usual construction in this art. *b* represents part of a shade in dotted lines and 2 the thumb-screws of the shade holder employed for connecting the shade to the holder. This bell-shaped shade holder is at its upper portion cut away between the edges 3 and 3 to provide for the out-turned ends of the spring metal band. *c* represents this band of spring metal—preferably spring brass—and *e*¹ are the out-turned ends of the

same between which is the adjusting screw 4 for drawing said ends nearer together in clamping the same around the lower end of the lamp socket *f*. This band of spring metal has secured to it a central stud or stud rivet *d* and side studs or stud rivets *e e*¹ at substantially equi-distant places in the circumference of the said band.

The upper portion or collar of the bell-shaped shade holder is preferably overturned at 5 so as to provide an edge beneath which the spring band *c* is placed and this collar portion of the shade holder is provided with slots 6 through which the stud rivets *d* and *e e*¹ pass from the band; it being preferable to make the slots for the stud rivets *e e*¹ slightly longer than the slot for the stud rivet *d*.

From the illustration and the foregoing description, it will be apparent that the overturned upper end of the shade holder has a supporting function with reference to the band *c* and that the stud rivets *d* and *e e*¹ serve mainly both for connection and support as between said spring band and the shade holder and also provide for a looseness as between the band and the shade holder, which makes it possible for the shade holder with the shade to automatically come into, or be placed into, an axial position with the axis of the lamp socket.

It goes without saying that lamp sockets differ somewhat in diameter and that various adjustments are necessary as between a shade holder and the lamp socket so as to bring the axes of the various parts into coincidence if possible, both for appearance and for the fit of the shade around the lamp. The stud rivet *d* allows for a radial movement of the spring band *c* with reference to the shade holder, and the stud rivets *e e*¹ not only permit a like movement but compensate for a contracting and expanding position of the spring band *c* as the same may be expanded or contracted by the movement of the adjusting screw 4. Furthermore said stud rivets assist in maintaining the parts in parallel planes which is quite essential for the appearance of the fixture.

With the device of my invention the advantages enumerated are readily obtained and the spring band *c* may expand or contract by the action of the screw 4 with regular progression because unhampered by a firm connection of an attaching rivet to

the shade holder as has heretofore been the case.

I claim as my invention:

1. In an electric light fixture, the combination with a shade holder, of a clamping band of spring metal adapted to extend around a lamp socket and a screw therefor and means extending between and for permanently connecting the clamping band and the shade holder at the upper portion of the latter for the support of the shade holder and which means simultaneously provide freedom for a movement of the shade holder to obtain a concentric and axial relation of said parts.

2. In an electric light fixture, the combination with a shade holder, of a clamping band of spring metal adapted to extend around a lamp socket and a screw therefor and devices secured to the said clamping band at substantially spaced intervals and extending to connection with the upper part of the shade holder, establishing a movable

supporting relation between the band and shade holder, whereby the coincident axial relation of the parts may be effected.

3. In an electric light fixture, the combination with a shade holder, of a clamping band of spring metal adapted to extend around a lamp socket and a screw therefor and stud rivets secured to the clamping band at substantially spaced intervals, said stud rivets passing through slots formed in the upper part of the shade holder with the heads of the rivets on the free ends thereof outside of the shade holder, whereby the clamping band and the shade holder are permanently connected and are movable with reference to one another so as to maintain parallelism of support and axial coincidence.

Signed by me this 23rd day of December 1909.

EDWIN E. HAYWARD.

Witnesses:

C. W. MATTHEWS,
A. J. STORZ.