E. L. WHITE.

DEVICE FOR SUSPENDING SHADES OR BOWLS IN LIGHTING FIXTURES.

APPLICATION FILED OCT. 10, 1914.

1,154,358. Patented Sept. 21, 1915.

Fig. 1

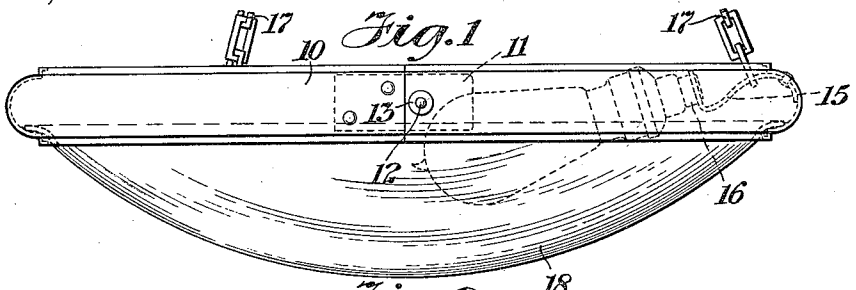


Fig. 2



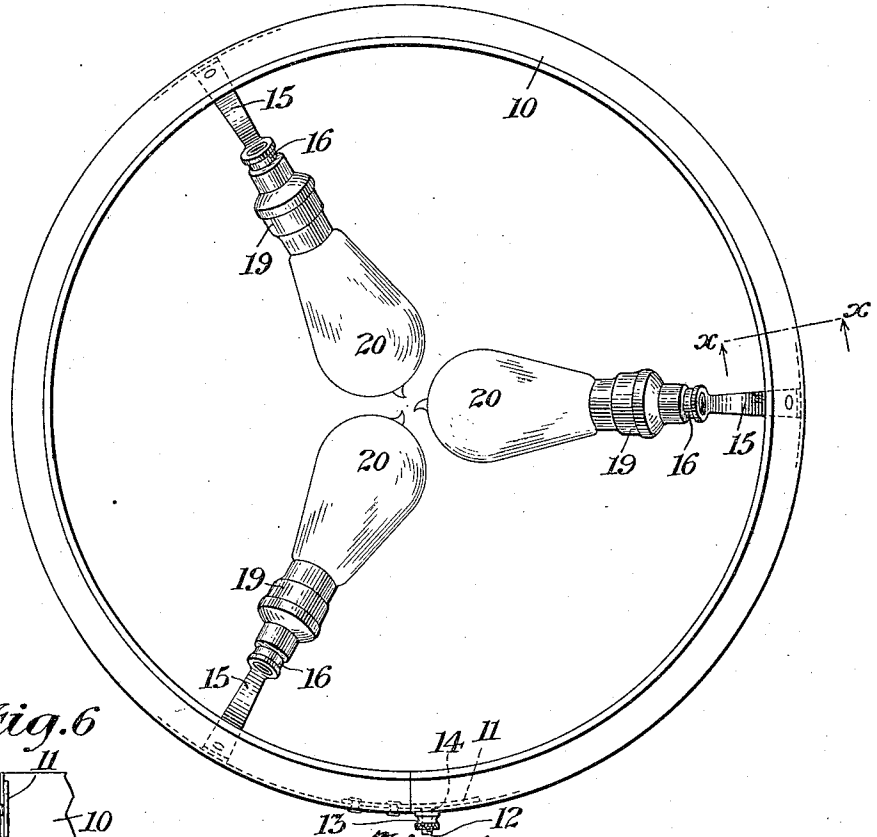


Fig. 6

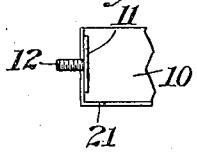


Fig. 4

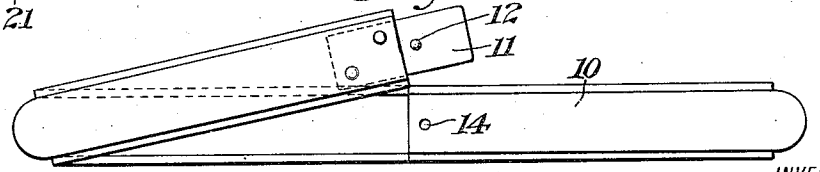
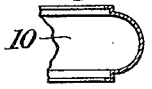


Fig. 5



Fig. 3



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DEVICE FOR SUSPENDING SHADES OR BOWLS IN LIGHTING-FIXTURES.

1,154,358. Specification of Letters Patent. **Patented Sept. 21, 1915.**

Application filed October 10, 1914. Serial No. 865,982.

To all whom it may concern:

Be it known that I, EDWIN L. WHITE, a citizen of the United States, residing at the borough of Brooklyn, in the county of Kings, city and State of New York, have invented an Improvement in Devices for Suspending Shades or Bowls in Lighting-Fixtures, of which the following is a specification.

The present invention relates to the type of lighting fixtures for producing semi-indirect lighting effects, wherein translucent bowls or shades are employed to reflect light against a wall or ceiling and transmit a diffused glow, from lamps located within the bowls. Heretofore, in fixtures of this character, the shades or bowls have been suspended by chains connected to hangers or hooks attached to the shades or bowls, or by a ring adapted to receive the rim of the bowl, said ring being fitted with set screws which pass through and turn within the same, their ends engaging the outer surface of the rim of the bowl to secure the ring in place. In such devices, care must be taken in adjusting the set screws to place, because if turned too far they are liable to crack the bowl, and if not turned enough, the bowl will not be properly supported, and even when properly adjusted, hangers of such character do not allow for adjustment of the bowl relatively to its support, which is of importance in guarding against the bowl being easily broken.

The object of my present invention is to overcome such difficulties, and it consists of a ring preferably having a hollow body adapted to receive the rim of a bowl and support the same without the use of clamping screws and in such manner as to allow free adjustment of the bowl relatively to the ring. And it further consists in dispensing with the hangers or hooks heretofore attached to the bowl, as in my improved device I provide supports for the lamp sockets which are attached directly to the ring and are of such character as to allow the suspending chains to be connected thereto, thus answering the double purpose of lamp supports and hangers.

The details of the invention are hereinafter particularly described.

In the accompanying drawing, Figure 1 is an elevation showing my improved ring attached to a shade or bowl. Fig. 2 is a plan view of the ring detached. Fig. 3 is a cross section of the same, on the broken line x, x, Fig. 2. Fig. 4 is an elevation of the ring in an open condition. Fig. 5 is a vertical view of one end of the ring, and connecting link, and Fig. 6 is a view of the same end, showing a modification in the shape of the ring and link.

Similar reference characters indicate like parts throughout the several views.

10 designates a ring, which in the preferred form is concave. This ring is preferably stamped or pressed up out of a strip of sheet metal, although it may be cast. Any desired ornamental design may be formed upon its outer surface.

11 indicates a connecting link, one end of which is permanently secured to the inner surface of the ring adjacent one of its free ends. It may be secured by solder or rivets or both, or in any other suitable manner. The other end of the link 11 extends beyond the end of the ring 10, and at a predetermined distance from the end of the ring, the link 11 is provided with a projecting pin 12, screw threaded to receive a nut 13. The pin 12 is attached to the link 11 in any suitable manner, preferably by its fixed end being inserted in a hole in the link and secured by solder. The other end of the ring 10 is provided with a hole 14, and is adapted to overlap the projecting portion of the link 10, with the screw threaded pin 12 passed through the hole 14.

15 designates spaced apart arms, one end of each of which is permanently secured to the interior of the ring at a point above its center. These arms may be secured to the ring by rivets or solder, or both, or in any other suitable manner.

A stud 16 is secured to the free end of each arm 15. These studs are for the attachment of lamp sockets 19 to receive the lamps 20.

The arms 15 not only support the lamp sockets, but also provide means for connecting the supporting chains 17, thus doing away with the hangers or hooks heretofore necessary. The end links of the chains 17 are connected to the arms 15, the arms at this point being preferably somewhat bowed to receive them.

In connecting the ring 10 to the shade or bowl 18, the nut 13 is unscrewed, and the ends of the ring separated, as shown in Fig. 4.

There is enough spring in the metallic ring to allow its ends to be drawn apart sufficient for the easy insertion of the rim of the bowl without any danger of injury to the same, and when this is done the end of the ring provided with the hole 14 is sprung over the pin 12 and projecting end of the link 11, when the two ends of the ring contact, forming a continuous surface. The nut 13 is then screwed upon the pin 12, securely fastening the ring around the rim of the bowl. The link 11 also gives additional strength and rigidity to the ring.

While I prefer to form the ring in the concave shape shown in Figs. 1, 2, 3, 4, and 5, and the link of a corresponding shape, as shown most clearly in Fig. 5, the ring, if desired, may be formed of flat metal having an annular inturned flange 21, upon its lower edge, in which case the connecting link is also flat. This modification is illustrated in Fig. 6.

The arms 15 being attached to the ring above its center do not touch the rim of the bowl which rests upon the lower curved portion of the ring, when in the concave form, and upon the flange 21, when the ring is of the shape shown in Fig. 6, consequently there is no pressure at any point upon the bowl, and all danger of breakage from such cause is entirely avoided.

By the employment of my invention, the bowl is easily inserted in or removed from the ring. The supports for the lamp sockets are always in place, and the separate hangers or hooks, heretofore necessary for the suspending chains, are rendered unnecessary. The rim of the bowl being entirely covered, and the ordinarily exposed hooks or hangers being dispensed with, the ornamental appearance of the fixture is greatly enhanced. Furthermore it permits the removal of the bowl for cleaning or attachment of the lamps without taking down the fixture, which has heretofore been necessary when employing a bowl of the shape shown in my drawing.

I claim as my invention.

1. In a lighting fixture, a ring of thin metal having an inturned lower edge to receive the rim of a bowl and severed at one point whereby sufficient spring is given to allow the ends of the ring to be sprung apart for the insertion of the bowl, a connecting link secured to the ring on its inner surface adjacent one end and projecting beyond said end, the other end of said ring overlapping said link in such manner that the two ends of the ring contact forming a continuous uniform outer surface, and means for securing the ends of the ring in such position.

2. In a lighting fixture, the combination of a shade or bowl, a ring to receive the rim of the same, spaced arms each secured at one end to said ring, a stud secured to the free end of each arm for attachment of a lamp socket, suspending chains connected to said arms, said ring being severed at one point, and a link secured within said ring adjacent one end by which the ends of said ring are joined in a separable manner.

3. In a lighting fixture, the combination of a shade or bowl, a ring to receive the rim thereof, spaced arms each secured at one end to said ring, a stud secured to the free end of each arm for attachment of a lamp socket, suspending chains connected to said arms, said ring being severed at one point, a link secured within said ring adjacent one end and projecting therefrom, a screw-threaded pin secured at one end to said projecting portion of said link, the other end of said ring having a hole adapted to receive said screw-threaded pin, and a nut adapted to be screwed upon said pin after the pin has been passed through said hole.

Signed by me this 28th day of September, 1914.

EDWIN L. WHITE.

Witnesses:
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."