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 Hangers for Light-Transmitting Bowls, of which the following is a specification.

My invention relates to hangers for light transmitting bowls in indirect lighting fixtures, wherein the bowl is supported from a shade or reflector, both pieces of glassware being drilled with spaced holes to receive plugs which are connected by chains. These plugs have heretofore been made of solid cast metal provided at one end with a head, and at the other end with a hook or eye to receive a link of the connecting chain. The body of the plug below the head has in some instances been threaded to receive a nut or washer to bind the hanger to the glassware, while in other instances the threaded plug receives a cap for the same purpose.

The devices are not only expensive, but cause great strain upon the glassware, which is frequently broken and destroyed from such cause.

The object of my present invention is to lessen the expense of manufacture and also the danger of injury to the glassware in hangers of this character, and consists in providing a hanger formed from a single piece of sheet metal as hereinafter more particularly described.

In the accompanying drawing:

Figure 1 is an elevation illustrating my invention detached from the glassware.

Fig. 2 is a plan of the hanger.

Fig. 3 is an inverted plan view of the same.

Fig. 4 is an elevation showing my improved hanger connected with the glassware.

Fig. 5 is an elevation showing a modification.

Fig. 6 is an elevation illustrating another modification.

Fig. 7 is an elevation of one of the plugs, and Fig. 8 is a similar view illustrating a modification in the plug.

Figs. 2, 3, 5, 6, 7 and 8 are in enlarged size.

Similar reference characters indicate like parts throughout the several views.

10, indicates the hanger for attachment to the shade or reflector 11. 12, indicates the hanger for attachment to the light transmitting bowl 13, and 14, indicates the connecting chain.

These hangers are each formed from a single piece of sheet metal pressed into the form of a hollow plug with an outwardly turned annular flange 15 at one end, which end is open, while the opposite end is closed. The hangers may be split longitudinally if desired, as at 19 in Fig. 5. In the closed end of each hanger two spaced slits are cut, leaving a central transverse strip 16, after which the metal at each side of said strip is preferably pressed inward to leave a slight space between it and said strip, which allows for the easy connection of the chain 14.

The hanger 12, when attached to a bowl being placed horizontally, it is preferable to form a bend 17, in the strip 16, (as shown most clearly in Fig. 1) to receive the hook 18, at the lower end of the chain 14, which gives a better bearing for the hook and more uniform pull, although this bend is not necessary.

In practice it is customary to employ these hangers in sets of six, that is, three for connection with the shade or reflector, and the same number for the bowl, and while I prefer that all the hangers of each set be provided with the strip 16, this may be dispensed with on the hangers for attachment to the bowl as will be seen by reference to Fig. 6, wherein two holes 20 and 21 are made in the hanger, one in the bottom near one side, and another in one side adjacent the bottom, through which the hook 18, may be passed.

In order to give a finished appearance to the hangers, particularly those connected with the bowl 13, it is preferable to cover the open ends of the hangers, and I employ caps 25 for this purpose, which caps are provided with flexible shanks to be inserted into such openings to retain the caps in place. For this purpose I prefer to employ a thin flexible strip of wire 28, bowed as shown in Fig. 8, but a flat strip of sheet metal may be bent into the form of a hollow plug 22, as in Fig. 7.

The outer surface of the caps may be plain as in Fig. 8, or they may be ornamented as in Fig. 7.

In order to facilitate the attachment of the chains 14 to the hangers for the shade or reflector 11, I prefer to connect hooks 24,
to the strips 16, on such hangers before they are inserted into the holes in the glassware.

My improvement creates a saving of material, and greatly lessens the strain upon the glassware and the risk of breakage, because comparatively thin sheet metal is employed providing a certain degree of spring or resiliency in the flange 15, which bears upon the outer surface of the shade and bowl, and also in the body of the hanger, particularly where it is split as illustrated in Fig. 5.

I claim as my invention:

1. In a lighting fixture and in combination, a reflector provided with a plurality of spaced openings, a bowl provided with spaced openings adjacent its open end, hangers within said openings in both the reflector and bowl consisting of a sheet of metal shaped to form a hollow cylinder with an annular flange at one end to seat upon the outer surfaces of the reflector and bowl around the openings therein, and provided with a transverse strip at the other end, and flexible connections between such strips on the hangers connected with the reflector and the hangers on the bowl.

2. In a lighting fixture and in combination, a reflector provided with a plurality of spaced openings, a bowl provided with spaced openings adjacent its open end, hangers within said openings in both the reflector and bowl consisting of a sheet of metal shaped to form a hollow cylinder having a longitudinal split at one side, an annular flange at one end, and a transverse strip at the other end, and flexible connections between such strips on the hangers connected with the reflector and the hangers attached to the bowl.

3. In a lighting fixture and in combination, a reflector provided with spaced openings, a bowl provided with spaced openings adjacent its open end, hangers within said openings in both the reflector and bowl comprising a hollow plug formed from a single piece of sheet metal open at one end and provided with an annular flange at said open end, the other end being provided with a transverse strip, flexible connections between such strips on the hangers connected with the reflector and bowl, and a cap for closing the open end of said plug.

4. In a lighting fixture and in combination, a reflector provided with spaced openings, a bowl provided with spaced openings adjacent its open end, hangers within said openings in both the reflector and bowl comprising a hollow plug formed from a single piece of sheet metal open at one end and provided with an annular flange at said open end, the other end being provided with a transverse strip, flexible connections between such strips on the hangers connected with the reflector and bowl, and a cap provided with a flexible shank for closing the open end of said plug.

Signed by me this 6th day of February, 1918.

EDWIN L. WHITE.

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