

B. P. RUCKER.
SHADE AND SOCKET FOR INCANDESCENT LAMPS.
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900,426.

Patented Oct. 6, 1908.

Fig. 1.

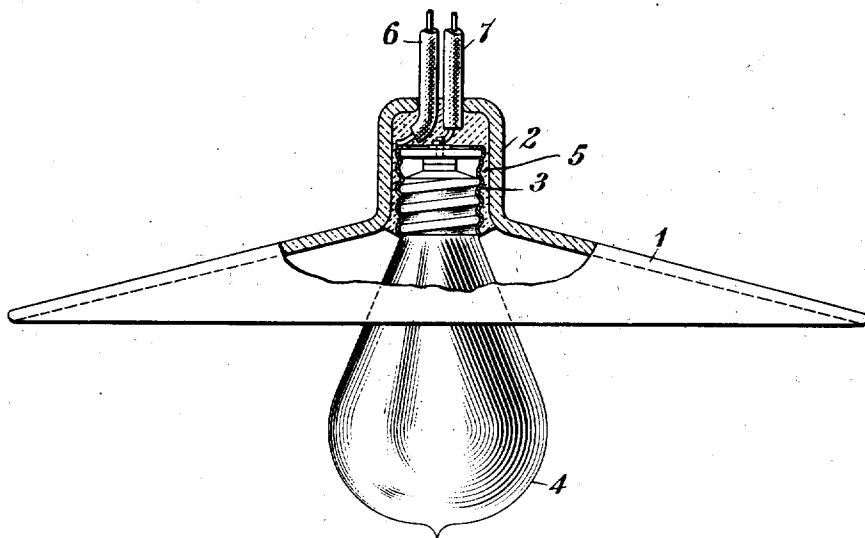
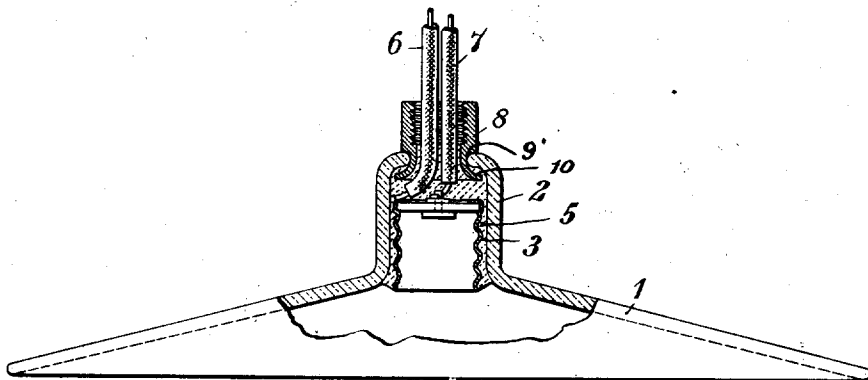


Fig. 2.



WITNESSES:

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BENJAMIN PARKS RUCKER, OF WILKINSBURG, PENNSYLVANIA.

SHADE AND SOCKET FOR INCANDESCENT LAMPS.

No. 900,426.

Specification of Letters Patent.

Patented Oct. 6, 1908.

Application filed June 21, 1906. Serial No. 322,768.

To all whom it may concern:

Be it known that I, BENJAMIN PARKS RUCKER, a citizen of the United States, and a resident of Wilksburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Shades and Sockets for Incandescent Lamps, of which the following is a specification.

My invention relates to shades or reflectors that are employed in connection with incandescent lamps, and it has for its object to provide a reflector of such a structure that it may be secured directly to a lamp socket and may serve to cover the same and prevent

oxidization and destruction thereof.

The sockets for incandescent electric lamps are usually mounted within, but insulated from, metallic caps or shells to which suitable brackets are often secured for supporting shades or reflectors, but when such structures are employed in out-of-door lighting systems and in factories or other places where moisture, gases and fumes are prevalent, they are frequently oxidized and gradually destroyed, and the supporting brackets for the reflectors are soon rendered useless by breaking or by separation from the shells to which they are secured.

According to the present invention the shade or reflector is extended to form a cap that completely surrounds and protects the socket, except the end into which the lamp is adapted to be inserted, and the two parts may be, and preferably are, suitably fastened together by suitable water-proof cement which also serves to prevent leaks around the terminal conductors that project through a comparatively small opening in the end of the cap.

The nature of the invention may be better understood from a consideration of the accompanying drawing, Figure 1 of which is a view partially in side elevation and partially in section of a structure that embodies the same, and Fig. 2 is a similar view of a modification of the structure of Fig. 1.

A shade or reflector 1, that may be of any of the well known or other types, is provided with a substantially cup-shaped extension or cap 2 in which a socket 3 for a lamp 4 is secured in any suitable manner, as, for example, by means of water-proof cement 5. Circuit connections to the socket are made by means of conductors 6 and 7 that in the present instance project through an aperture

to the terminal portions of the socket, and that may serve as means for suspending the lamp and the reflector directly from the supply conductors or from ceiling rosettes. The cement 5 fills the space between the socket and the cap and closely surrounds the ends of the conductors 6 and 7, thereby preventing water, air and gases from causing oxidation or corrosion of the external surface of the socket. The reflector is composed of glass or porcelain, or another non-corrosive insulating material.

When it is desired to attach the reflector to a chandelier or to a pipe in which the supply conductors are located the reduced end of an internally screw threaded sleeve 8, (Fig. 2,) may be inserted in the aperture in the end of the cap 2 as far as a shoulder 9 that is provided by the reduction, and the reflector may be secured thereto by any suitable means as by flaring of the inner end thereof as at 10.

The structural details and arrangements of the parts are capable of further modification within considerable limits without departing from the spirit of the invention, and I desire that all such modifications be included within its scope.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a non-corrosive insulating shade or reflector having an integral protuberant cap or dome, of a lamp socket located entirely within and sheathed by the cap or dome, the latter conforming substantially in shape to the socket and extending over one end thereof.

2. The combination with a non-corrosive insulating shade or reflector having an integral protuberant cap or dome, of a lamp socket located entirely within and sheathed by the cap or dome, the latter conforming substantially in shape to the socket and extending over one end thereof, and conducting leads that connect to the socket and project through the cap or dome.

3. The combination with a non-corrosive insulating shade or reflector having an integral protuberant cap or dome, of a lamp socket located entirely within and sheathed by the cap or dome, the latter conforming substantially in shape to the socket and extending over one end thereof, and cement securing the socket in the cap or dome and filling the interstices between the said parts.

4. The combination with a non-corrosive insulating shade or reflector having an integral protuberant cap or dome, of a lamp socket located entirely within and sheathed
5 by the cap or dome, the latter conforming substantially in shape to the socket and extending over one end thereof, conducting leads that connect to the socket and project through the cap or dome, and cement filling
10 the interstices between the cap or dome and the socket and leads.

5. The combination with a lamp socket, of a shade or reflector having a protuberant cap or dome that serves as a sheath or covering
15 for the socket and is provided with an aperture, a sleeve that projects through the aper-

ture and to which the reflector is secured, and conductors that connect to the socket and extend outwardly through the sleeve.

6. The combination with a lamp socket, of
20 a non-corrosive insulating shade or reflector having an integral protuberant cap or dome that closely surrounds and sheathes substantially all but the open end of the socket.

In testimony whereof, I have hereunto
25 subscribed my name this 19th day of June, 1906.

BENJAMIN PARKS RUCKER.

Witnesses:

OTTO S. SCHAIRER,
BIRNEY HINES.