F. J. NAHUIS.

LAMP SHADE HOLDER.

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1,066,836.

Patented July 8, 1913.

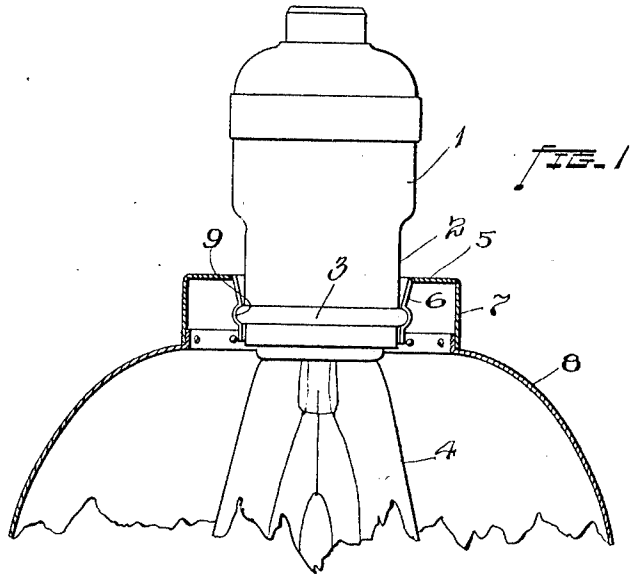


FIG. 1

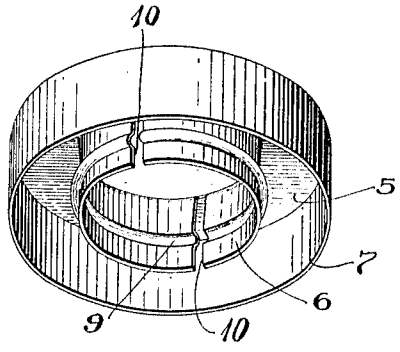


FIG. 2

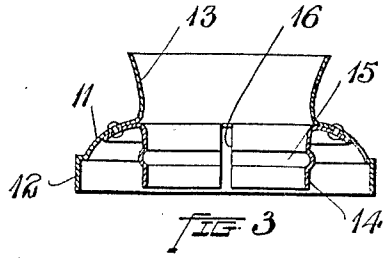


FIG. 3

WITNESSES=

Oliver M. Kapple

Robert M. See

INVENTOR

Frank J. Nahuis

BY J. B. Fay

ATTORNEY—

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

FRANK J. NAHUIS, OF CLEVELAND, OHIO, ASSIGNOR TO THE EMPIRE BRASS MANUFACTURING COMPANY, OF CLEVELAND, OHIO, A CORPORATION OF OHIO.

LAMP-SHADE HOLDER.

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To all whom it may concern:

Be it known that I, FRANK J. NAHUIS, a citizen of the United States, and a resident of Cleveland, county of Cuyahoga, and State of Ohio, have invented a new and useful Improvement in Lamp-Shade Holders, of which the following is a specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

The present invention relates generally to lamp shade holders, and it particularly provides a holder for securing a shade to the usual socket for an incandescent electric lamp.

The invention provides a lamp shade holder which may be easily and quickly secured on a socket and which may be removed with equal facility, if desired, and which, nevertheless, will be very securely retained in place on the socket against any but intentional removal.

The invention provides these characteristics in a shade holder which is a unitary structure lending itself to very economical manufacture.

To the accomplishment of the foregoing and related ends, said invention, then, consists of the means hereinafter fully described and particularly pointed out in the claims.

The annexed drawing and the following description set forth in detail certain mechanism embodying the invention, such disclosed means constituting, however, but one of the various mechanical forms in which the principle of the invention may be used.

In said annexed drawing:—Figure 1 is a broken sectional view of a shade holder embodying the invention, in place on a lamp socket; Fig. 2 is a perspective view of a shade holder embodying the invention, and Fig. 3 is a sectional view of a shade holder embodying a modified form of the invention.

The usual electric lamp socket 1 is provided with a cylindrical section 2 formed with an outwardly projecting annular bead 3, and the socket is designed to receive an incandescent lamp 4.

The improved shade holder comprises a continuous member designed to surround the outer or lamp receiving end of the socket inwardly beyond the bead, and it is provided with a flange extending outwardly from the member toward the outer end of the socket, the flange also surrounding the cylindrical section of a lamp socket. The flange is split axially and is formed interiorly with an annular groove.

In applying the holder to a socket, the continuous member is passed inwardly from the outer or lamp receiving end of the socket over the bead and the flange, a portion of which is designed to closely fit the outer end of the socket, will be sprung over the bead on the socket because of the axial split in the flange. When the groove in the band registers with the bead, the flange will spring into its closely fitting position and tightly grip the bead. The flange is thus securely held on the socket, and the only way it can be removed is by tipping the holder or socket at a slight angle to the axis of the socket and thus prying, so to speak, the flange from its gripping position on the bead of the socket. The removal of the shade does not necessitate entirely prying the flange from the socket, but it may be removed by a very slight angular tipping, followed by a slight rotative movement.

Despite the facility with which the holder may be applied to, or removed from, the socket, when once in place it is very securely held. Since the split flange extends outwardly from the continuous member, and since the shade, which will be secured to the continuous member, extends outwardly in the same direction with the flange, the greater the outward pull exerted upon the continuous member by the shade, the more closely will the split flange be forced around the socket. Obviously, if the split flange extended inwardly, and the shade extended outwardly, from the lamp receiving end of the socket, the weight of the shade, or any pull upon it, would tend to force the flange from its engaging position upon the socket. A holder embodying the present invention, however, when once applied to a socket is securely held in place against any but intentional displacement despite the fact that such intentional displacement may be easily effected.

In the preferred form of the invention the continuous member is formed as an apertured annular web 5 formed integrally at the edge of the perforation with an inner flange 6, while an outer flange 7 projects from the web in the same direction, the

shade 8 being either permanently secured by rivets or otherwise, to the outer flange 7, or else the flange 7 being adapted to have a shade removably secured to it. The perforation in the web 5 is of such size as to permit the web to pass over the bead 3 on the socket. The inner flange is provided interiorly with an annular groove 9 designed to engage the bead 3 on the socket, and it is further provided with one or more axial slits 10; since the outer grooved portion of the flange is designed to conform with the shape of the socket it will preferably be cylindrical, but from substantially the inner edge of the groove 9 to the edge of the aperture in the web 5, the flange is of general conical form so that as the holder is thrust onto the socket the split flange will be distended until the groove 9 registers with the bead 3. It will of course be noted that it is necessary, and the necessity is met by the construction just described, that the continuous web shall have an opening of such area as to permit the web to pass freely from the lamp-receiving end of the socket inwardly over the bead or vice versa; that at least that portion of the flange in which the groove is formed shall be so proportioned that the groove will closely engage the bead; and that the flange, from the grooved portion to the continuous web shall flare, or otherwise extend, until the opening therethrough is equal to or larger than the area of the aperture in the continuous web. The shade holder embodying this preferred form of the invention may be readily slipped onto the lamp receiving end of a socket, the continuous member, which will pass inwardly over the bead, holding the inner edge of the flange in fixed position, while the flange proper, because of the split or splits in it, will have sufficient resiliency to pass over the bead on the socket until the groove registers therewith, whereupon the flange will spring into securing position. The holder will, of course, be preferably made of sheet metal having some resiliency. When the holder is thus in securing position, any pull outwardly upon it will serve to force the split flange more closely into gripping position against the lamp socket, so that the shade is securely held against movement in any direction. When it is intentionally desired to remove the holder, however, a slight tipping of it, due to the resiliency of the split flange, will force the bead for a slight part of its length from the groove in the flange, and a slight rotative movement will then disengage the flange completely from the bead, and it then will be freely removable.

Fig. 3 discloses a modified form of the invention in which the continuous member 11 is formed integrally with the outer flange 12, and with an ornamental portion 13 designed to completely cover, with the flange, the cylindrical section of the usual lamp socket. The inner flange 14 provided with a groove 15 and the slit or slits 16 is made as a separate piece and secured to the member 11 by rivets or by other desired means. The same general features which characterize the form already described are present in the modified form shown in Fig. 3, and the functional operation of the two forms is the same.

Other modes of applying the principle of my invention may be employed instead of the one explained, change being made as regards the mechanism herein disclosed provided the means stated by any of the following claims or the equivalent of such stated means be employed.

I therefore particularly point out and distinctly claim as my invention:—

1. A shade holder designed for use with a lamp socket having a peripheral bead, comprising an apertured continuous member adapted to pass over such bead and designed to be disposed inwardly therebeyond when in position, the member being provided with an outwardly extending flange formed interiorly with a groove adapted to removably engage such bead.

2. A shade holder designed for use with a lamp socket having an annular bead, comprising an annular continuous member adapted to pass over such bead and designed to be disposed inwardly therebeyond when in position, the member being provided with an outwardly extending flange having a substantially cylindrical portion formed interiorly with a groove adapted to removably engage such bead.

3. A shade holder designed for use with a lamp socket having an annular bead, comprising an annular continuous web adapted to pass over such bead and designed to be disposed inwardly therebeyond when in position, the web being provided at its inner edge with an outwardly extending flange having a cylindrical portion formed interiorly with a groove adapted to removably engage such bead, the flange being axially split.

4. A shade holder designed for use with a lamp socket having an annular bead, comprising an annular continuous web adapted to pass over such bead, the web being provided at its inner edge with a flange having a cylindrical portion formed interiorly with an annular groove adapted to engage such bead, and the flange from the web to the adjacent edge of the groove being of general conical form, the flange being axially split.

5. A shade holder designed for use with a lamp socket having an annular bead, comprising an annular continuous web adapted to pass over such bead, the web being pro-

vided at its inner edge with a flange having a cylindrical portion formed interiorly with an annular groove adapted to engage such bead, and the flange from the web to the adjacent edge of the groove being of general conical form, the flange being axially split, the web being provided at its outer edge with a second flange extending in the same direction as the inner flange.

Signed by me this 20th day of June, 1912.

FRANK J. NAHUIS.

Attested by—
ROBERT M. SEE,
ANNA L. GILL.

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