



# UNITED STATES PATENT OFFICE.

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## LAMP-SHADE HOLDER.

No. 835,422.

Specification of Letters Patent.

Patented Nov. 6, 1906.

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*To all whom it may concern:*

Be it known that I, HENRY AMYATT CHAUNDY HELLYER, a citizen of the United States, and a resident of Tenafly, in the county of Bergen and State of New Jersey, have invented certain new and useful Improvements in Lamp-Shade Holders, of which the following is a specification.

My invention relates to shades and shade-holders for incandescent electric lamps. Its object is to provide a simple and inexpensive shade-holder that can be quickly attached to the shade, of which it then practically forms a part, and so made that the whole may be easily fastened to the lamp-socket without the aid of screw-driver or other tool and firmly held in place.

Reference is to be had to the accompanying drawings, forming an essential part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a transverse section of my improved shade-holder. Fig. 2 is a plan view thereof. Fig. 3 is a sectional elevation of shade and shade-holder, with a portion of each removed to more clearly show the relation of the various parts to each other and to the lamp-socket. Fig. 4 is a transverse section of a clamp-ring which I sometimes use in connection with my improved shade-holder. Fig. 5 is a plan view of the same. Fig. 6 is a transverse section of a clamp-ring, showing an alternative design; and Fig. 7 is a plan view thereof.

The shade-holder is designed primarily for use with shades made of paper, cardboard, celluloid, silk, linen, or other flexible material; but it may be used also in connection with rigid shades, such as those made of tin or aluminium.

Referring to the drawings, Fig. 3, A is a shade of material indicated above, generally conical in shape, and jointed in a sloping line in any convenient manner or molded in one piece. The interior is preferably white and of a reflecting character, and the exterior of a darker color; but the shade may be of the same color all through, or either surface may be of any desired color and character.

B represents a lamp-socket to which the shade A is attached by means of the shade-holder C.

L is the bulb of an incandescent electric lamp.

The holder as first made is of the shape shown in Fig. 1 and consists of a beveled flange C<sup>2</sup>, the knurl C<sup>3</sup>, the body C, and the neck C<sup>4</sup>, in which is rolled the knurl C<sup>5</sup> to engage with the bead B' of the socket. The upper part of the neck C<sup>6</sup> is turned outward to facilitate the operation of pushing the shade-holder onto the lamp-socket and also to prevent the clamp-ring D from being accidentally displaced. The holder has a central opening C' to permit of its engaging the lamp-socket. In the body of the holder C, between the neck C<sup>4</sup> and the knurl C<sup>3</sup>, holes C<sup>7</sup> are provided, and from them slots C<sup>8</sup>, preferably four in number, extend through the neck, thus making it flexible and allowing the neck to expand sufficiently to permit the knurl C<sup>5</sup> to engage the bead B' of the lamp-socket. The holes C<sup>7</sup> also afford ventilation for the air heated by the lamp to escape, and to further facilitate this action additional holes, as C<sup>9</sup>, are provided.

The essential feature of my invention is the method of attaching the holder to the shade, which operation is accomplished in the following manner: The holder C is placed upon a suitable form and the shade slipped over it, resting on the beveled flange C<sup>2</sup>. Pressure is then applied to the body of the holder, forcing the metal in the knurl C<sup>3</sup> outward and downward, as indicated by dotted outline in Fig. 1, so as to envelop the upper edge of the shade, as shown clearly in Fig. 3, and hold the shade firmly in place. The clamp-ring D may then be slipped into its position on the neck, both it and the neck being flexible, or the holder may be attached directly to the lamp-socket without the use of the clamp-ring, there being sufficient spring in the flexible neck to sustain the weight of an ordinary shade.

The clamp-ring D is made of spring-wire, preferably brass, bent into a circle of the proper diameter with the ends abutting and slightly apart, as shown at D'.

The clamp-ring E is chiefly used in cases where the upper edge of the neck of the holder is straight and not turned outward, as in C<sup>6</sup>. It consists of two rings E' and E<sup>2</sup>, joined by the piece E<sup>3</sup>, which is bent to suit the bead B' of the socket. In this case the lower ring E<sup>2</sup> prevents the upper ring E'



from passing up and off the neck of the holder.

It will be seen from the drawings that the holder, with or without either of the clamp-  
5 rings, may very readily be attached or detached from the lamp-socket, all that is necessary to do so being a steady pressure in the desired direction, which may be conveniently applied by the fingers, while, on the  
10 other hand, the shade will not fall of its own weight and will not easily become detached accidentally.

The shade-holders hereinbefore described are made of any suitable material. In practice I make them of thin metal, usually brass.

I do not claim any novelty for the body C, the central opening C', the neck C<sup>4</sup> when made straight, the knurl C<sup>5</sup>, the ventilation-holes C<sup>7</sup> and C<sup>9</sup>, the slots C<sup>8</sup>, or for the shade  
20 A as such.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

25 1. A shade-holder comprising a body having openings therein, a beaded neck having slots leading from the openings of the body out through the upper end thereof, a downwardly and outwardly inclined annular  
30 flange adapted to fit within a shade, and a second downwardly and outwardly inclined annular flange at the top of the first flange for

clamping the upper edge of the shade, said second flange being of double thickness and of less width than the first flange.

35 2. A shade-holder, comprising a body, a neck, a downwardly and outwardly inclined annular flange adapted to fit within a shade, and a second downwardly and outwardly inclined annular flange for clamping the upper  
40 edge of the shade, said second flange being of double thickness and of less width than the first flange.

3. A shade-holder, comprising a body formed with a neck and two downwardly and  
45 outwardly inclined annular flanges at its lower end between which the shade is clamped, the flanges being of unequal width and the narrower one being of double thickness.

50 4. A shade-holder, comprising a body having a neck and provided with two downwardly and outwardly inclined annular flanges at its lower end between which the shade is clamped, the outer flange being narrower than the inner one.

Signed at Tenafly, in the county of Bergen and State of New Jersey, this 21st day of April, A. D. 1906.

HENRY AMYATT CHAUNDY HELLYER.

Witnesses:

DANIEL PAUL,

EDWARD J. McDONALD.