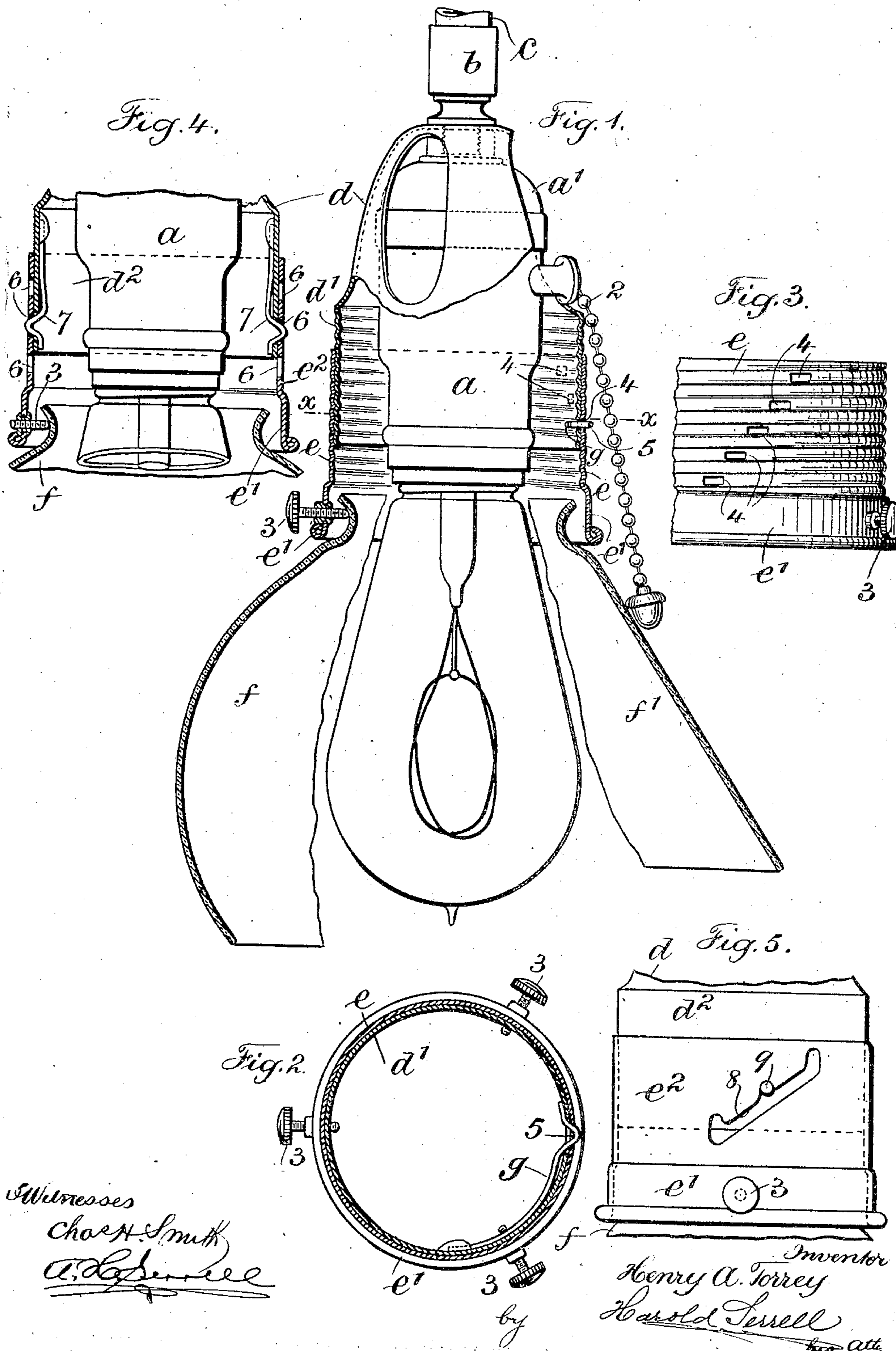


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SHADE HOLDER FOR ELECTROLIERS.
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Patented Aug. 31, 1909.



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SHADE-HOLDER FOR ELECTROLIERS.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY A. TORREY, a citizen of the United States, residing at Waterbury, in the county of New Haven and State of Connecticut, have invented an Improvement in Shade-Holders for Electroliers, of which the following is a specification.

My invention relates to a shade holder for electroliers regardless of the character of the electrolier and regardless of the character of the incandescent lamp connected therewith, for the electrolier may be suspended from the ceiling, connected to a side wall, or portable to stand upon a desk or table; the special object of my invention being to adjust the position of the globe or shade with reference to the center of the incandescent lamp so that the lamp may not only be protected but so that the rays of the lamp will be thrown as equally as possible in all directions.

In the device of my invention, the shade holder is made of two parts axially movable with reference to one another and adapted for connection in any one of several axial positions; it being understood that one of these parts is at one end connected in a fixed relation to the sleeve or the lamp socket, or more properly speaking, between said parts and to the union that connects them. The free end of one of these members or shells is cylindrical and threaded and the other member is in the form of a sleeve or annulus, a part of which is threaded to screw over the threaded portion of the other member, with the free end of the exterior member adapted to receive the flanged portion of the globe or shade which is clamped thereto by the usual clamping screws, and as a connecting device in the adjustable relation of these parts, I prefer to provide a wire spring having a projecting or looped part passing through a hole in the threads of the shell member and adapted to engage any one of a number of spaced holes in the sleeve or annulus as the parts are screwed together or unscrewed axially, and in this manner the position of the globe or shade with reference to the incandescent lamp is adjusted, all of which is hereinafter more particularly described.

In the drawings Figure 1 is a vertical section and partial elevation representing the device of my improvement. Fig. 2 is a

sectional plan at about the dotted line x, x , of Fig. 1. Fig. 3 is an elevation of a portion of the sleeve or annulus showing clearly the screw-threaded portion, the base and the spaced holes therein. Fig. 4 is a vertical section and Fig. 5 an elevation showing forms of my invention.

Referring particularly to Fig. 1, a represents the lamp socket and a^1 the switch body of the lamp socket. 2 represents a pull switch of usual construction. b is a sleeve member to which the lamp socket is secured and c an arm or part of an electrolier connected to the sleeve. d represents a conoidal shell connected at the smaller closed end between the lamp socket and the sleeve b and forming a substantial unit with said socket. This conoidal shell is preferably of open-work sheet metal for lightness and appearance as shown in Fig. 1. The free end thereof however, is in the form of a cylindrical member d^1 with a screw thread pressed circumferentially therein and continued to the very edge.

The member d^1 is provided with an opening adjacent to the lower edge and within said member I provide a spring wire g about the form shown particularly in Fig. 2, in which one end is secured by solder to the sheet metal and the free end provided with a loop or projection 5 adapted to pass through the opening in the said member d^1 .

Surrounding the threaded portion d^1 is a closely fitting sleeve or annulus e also having a screw-thread pressed into the same and the thread of this sleeve or annulus meshes with the screw-thread of the part d^1 so that the part e is adapted to be turned about the part d^1 , thus imparting to the sleeve or annulus e a longitudinal motion or motion axially on the part d^1 . The lower portion e^1 of the part e is of slightly greater diameter and without screw-thread but provided with clamping screws 3 at spaced intervals and preferably with a rolled lower edge to stiffen the same. This lower portion e^1 is adapted to receive the curved flange at the upper end of the shade or globe and the screws 3 serve to support the same in position. The annulus or sleeve e is provided with spaced apart holes 4 cut through the raised portions of the convolutions of the screw thread and any one of these holes is adapted to receive the loop part 5 of the spring g according to the position of the

sleeve e in its relation to the member d^1 . Fig. 3 shows these holes 4 and the preferable spaced relation thereof.

In Fig. 1 I have shown parts of globes 5 differing in shape and configuration, the globe f being circular in vertical section and the shade f^1 being flaring. I do not limit myself to the shape or kind of globe or shade.

10 In the form of my invention shown in Fig. 4, I dispense with connecting screw threads for the cylindrical portion of the conoidal shell and annulus sleeve and make both the cylindrical portion d^2 and the an-
15 nulus sleeve e^2 plain and telescoping and provide spaced apart openings 6 in the annulus sleeve e^2 on opposite sides, and upon opposite inner surfaces of the cylindrical portion secure springs 7 with loop portions
20 passing through openings in the portion d^2 into any of the oppositely placed openings of the annulus sleeve e^2 . While the springs 7 connect the parts d^2 and e^2 , it is obvious that the annulus sleeve e^2 may be readily
25 moved vertically of the cylindrical base d^2 and while I have shown the springs 7 placed vertically it is also obvious that they may with equal advantage be placed as shown in Figs. 1 and 2, and be operative by
30 a turning action of the part e^2 prior to the longitudinal movement thereof.

In the form of my invention shown in Fig. 5 I have varied the means of connecting the annulus sleeve e^2 to the cylindrical por-
35 tion d^2 by providing the sleeve with an inclined slot 8 with semi-circular notches in the upper edge and the portion d^2 with a pin 9 adapted to move through the said slot and rest for the support of the sleeve
40 e^2 and shade or globe in any one of the said notches.

All these forms of my invention provide equally for the longitudinal movement of the sleeve upon the cylindrical portion of
45 the shell and its adjustable connection therewith according to the desired position thereof.

I claim as my invention:

1. The combination with the socket of an
50 incandescent electric lamp and a support therefor, of a holder for a shade or globe comprising two members one of which is adapted for connection with the said socket and the other of which is adapted together
55 with the shade or globe for an axial and telescoping movement upon and with reference to the first aforesaid part.

2. The combination with the socket of an
60 incandescent electric lamp and a support therefor, of a holder for a shade or globe comprising a member having a conoidal part adapted for connection with the said socket and an integral cylindrical part, and
65 a member adapted to surround said cylindrical part and to be axially movable there-

on and means for connecting said members together in a rigid but adjustable relation.

3. The combination with the socket of an incandescent electric lamp and a support therefor, of a holder for a shade or globe 70 comprising a member having a conoidal part adapted for connection with the said socket and an integral cylindrical part in which is formed a screw-thread, and a member adapted to surround said cylindrical 75 part and having a correspondingly screw-threaded part to engage the aforesaid screw-threaded part and to be axially movable thereon and means for connecting said mem- 80 bers together in a rigid but adjustable relation.

4. The combination with the socket of an incandescent electric lamp and a support therefor, of a holder for a shade or globe comprising two tubular cylindrical telescop- 85 ing members one of which is adapted for connection with the said socket and the other of which is adapted together with the shade or globe for an axial and telescoping movement upon and with reference to the 90 first aforesaid part.

5. The combination with the socket of an incandescent electric lamp and a support therefor, of a holder for a shade or globe comprising a member having a conoidal 95 part adapted for connection with the said socket and an integral cylindrical part, and a member adapted to surround said cylindrical part and to be axially movable thereon, a spring arm device secured to the in- 100 ner surface of the cylindrical part of the conoidal member and having an engaging loop portion passing through a perforation therein and the movable member made with a series of spaced perforations and one of 105 which may be engaged by the loop portion of the spring arm in the adjustable relation of the parts.

6. The combination with the socket of an incandescent electric lamp and a support 110 therefor, of a holder for a shade or globe comprising two members, one of which is adapted for connection with the said socket and the other of which is adapted for an axial and telescoping movement with refer- 115 ence to the first aforesaid part, a spring arm device secured to the inner surface of the cylindrical part of the conoidal member and having an engaging loop portion passing through a perforation therein and the mov- 120 able member made with a series of spaced perforations and one of which may be engaged by the loop portion of the spring arm in the adjustable relation of the parts.

Signed by me this 18th day of March, 125 1909.

HENRY A. TORREX.

Witnesses:

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