

No. 640,492.

Patented Jan. 2, 1900.

E. A. RUSSELL.

SHADE HOLDER FOR INCANDESCENT ELECTRIC LAMPS.

(Application filed July 25, 1898.)

(No Model.)

Fig. 1

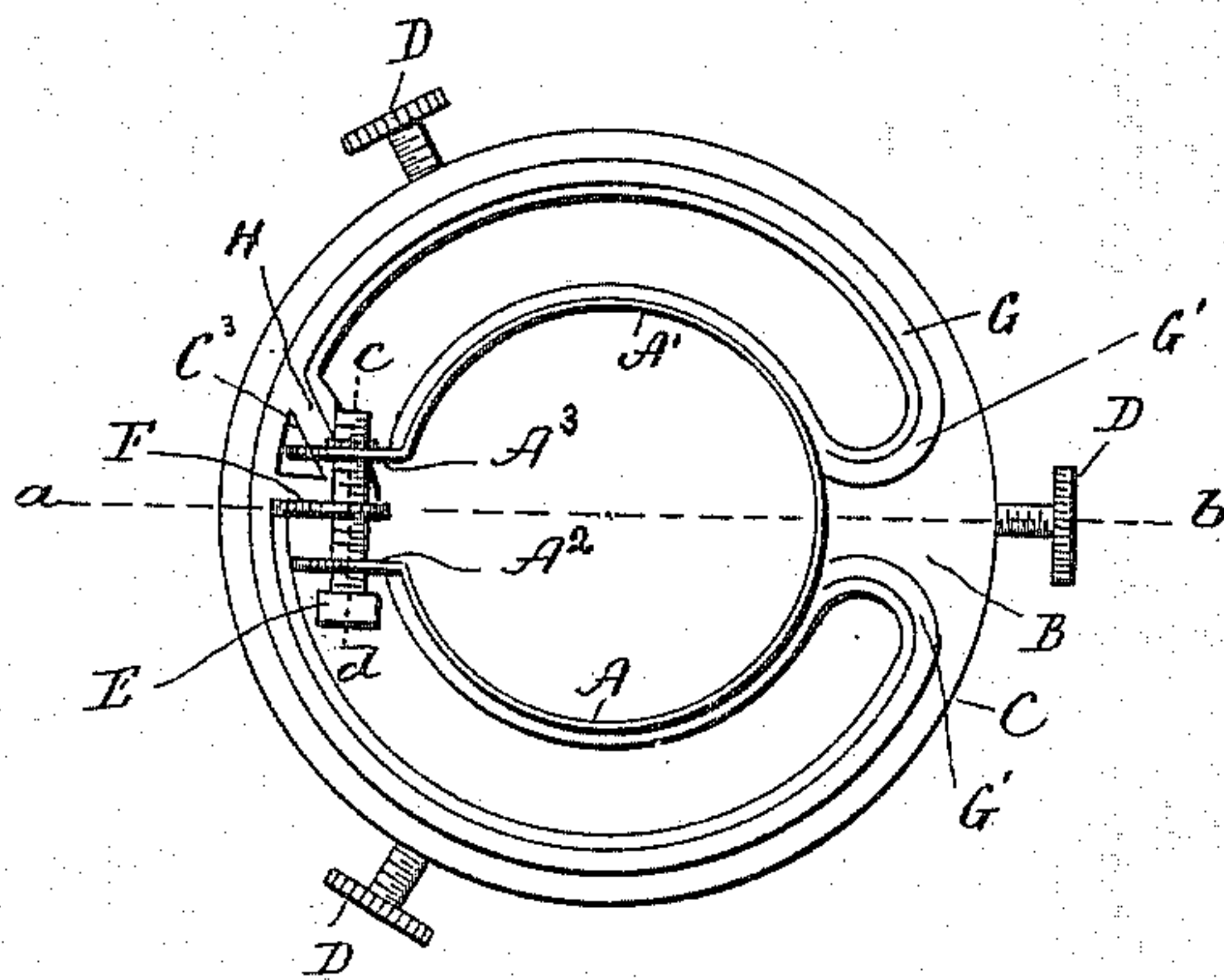


Fig. 2

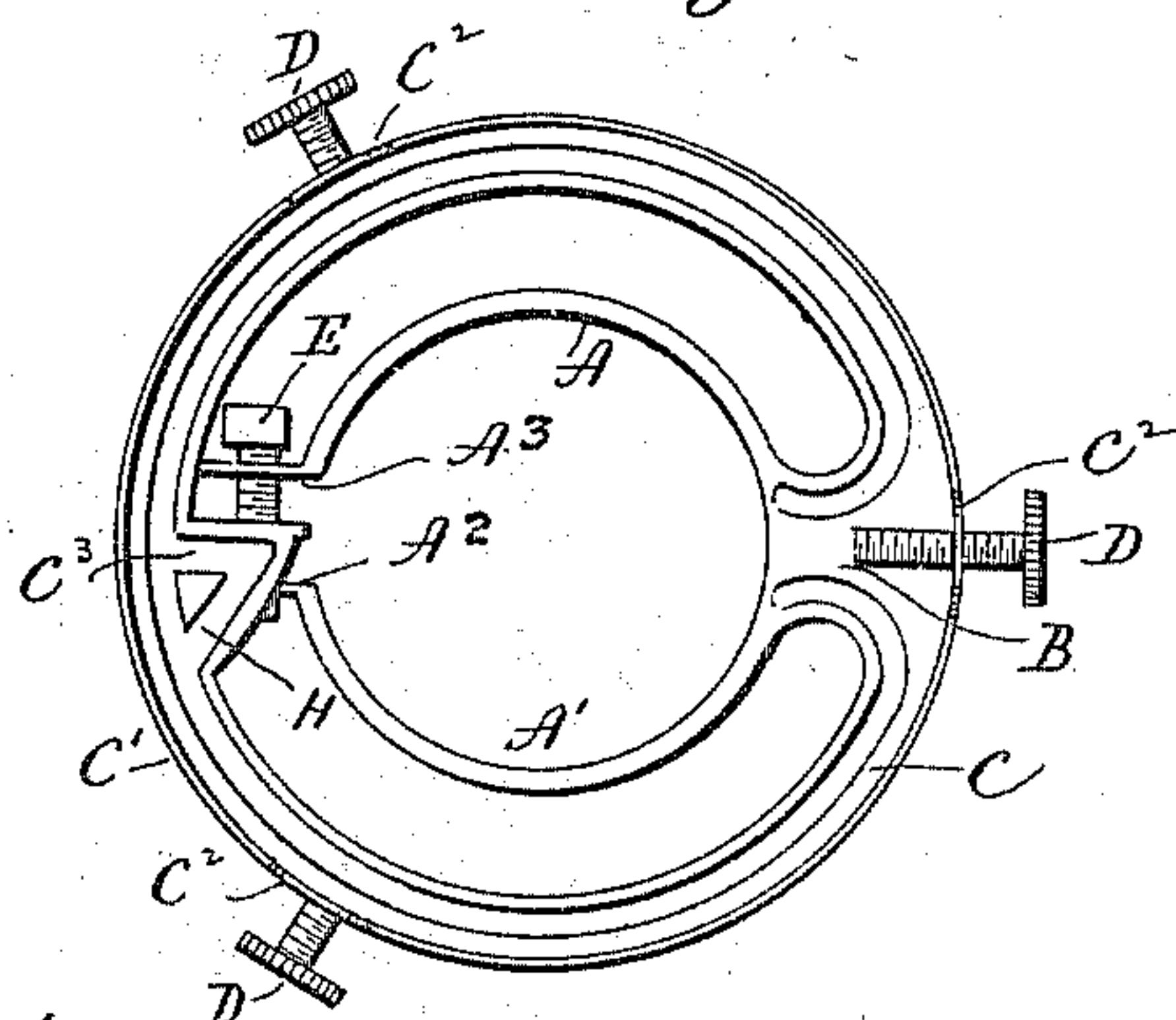


Fig. 3

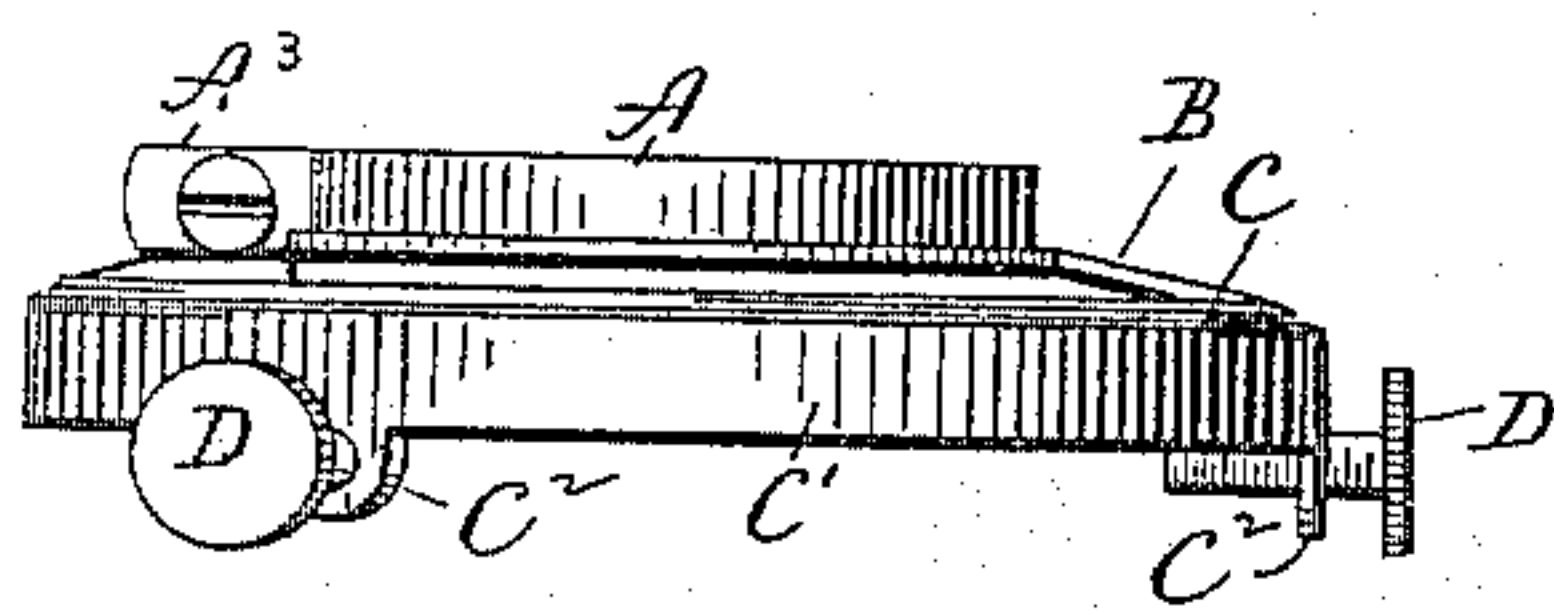


Fig. 4

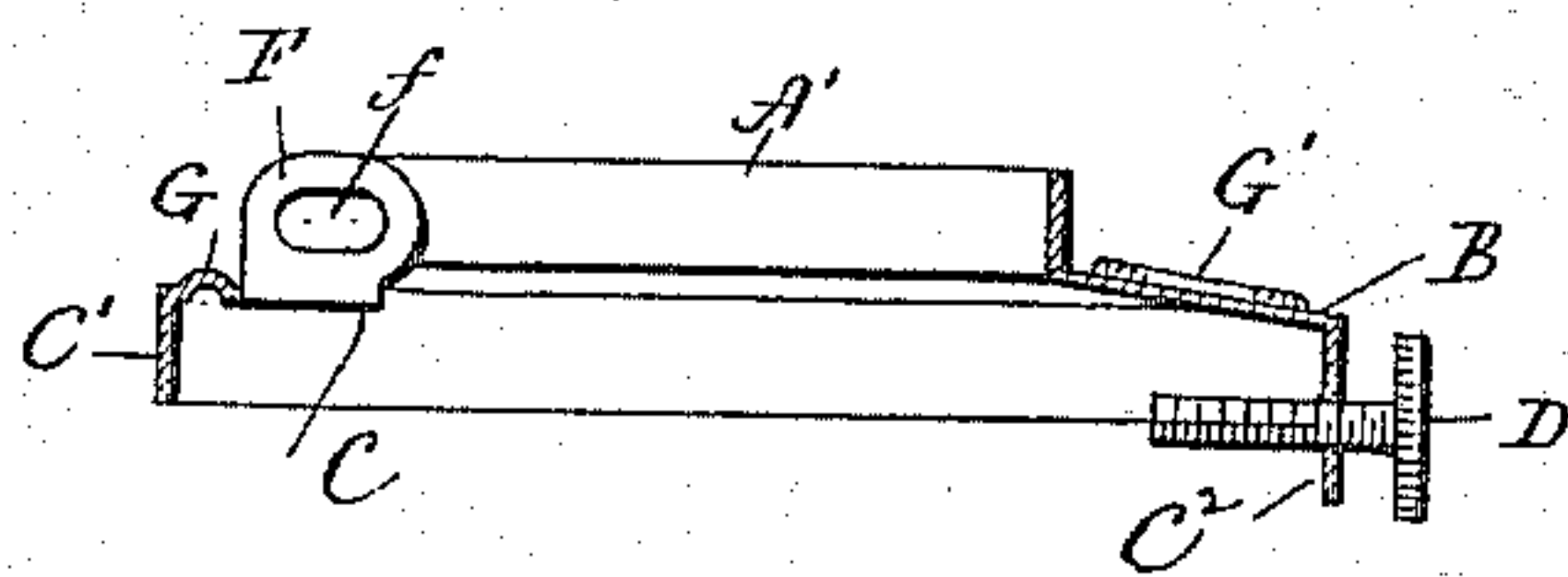
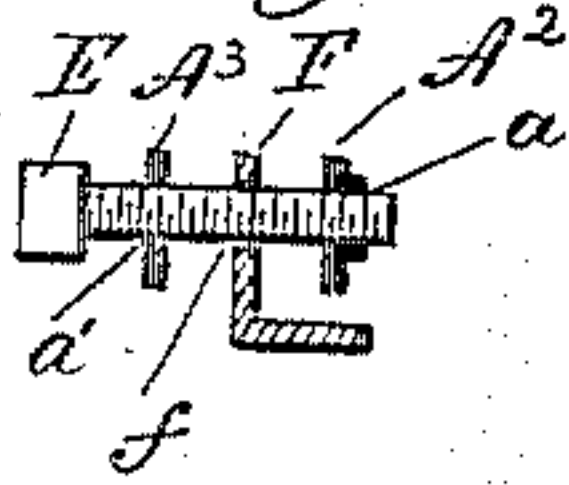


Fig. 5



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# UNITED STATES PATENT OFFICE.

EDGAR A. RUSSELL, OF WALLINGFORD, CONNECTICUT.

## SHADE-HOLDER FOR INCANDESCENT ELECTRIC LAMPS.

SPECIFICATION forming part of Letters Patent No. 640,492, dated January 2, 1900.

Application filed July 25, 1898. Serial No. 686,777. (No model.)

*To all whom it may concern:*

Be it known that I, EDGAR A. RUSSELL, a citizen of the United States, residing at Wallingford, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Shade-Holders for Incandescent Lamps, of which the following is a specification.

My invention relates to an improvement in that class of shade-holders which are designed for use with incandescent electric lamps, the object being to produce at a low cost for manufacture a simple, convenient, effective, and attractive holder constructed with particular reference to use with lamps varying in size without losing that concentric relation of the lamp and shade necessary to a good appearance of the fixture.

With these ends in view my invention consists in a shade-holder stamped up in one piece from sheet metal and having certain details of construction, as will be hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a plan view of a shade-holder constructed in accordance with my invention. Fig. 2 is an inverted plan of the same. Fig. 3 is a side elevation. Fig. 4 is a cross-section, and Fig. 5 is a sectional view through the clamping-screw.

In carrying out my invention I form from a single piece of metal a shade-holder comprising a shade-holding ring, an integral radial supporting-plate, and an integral clamping-band composed of two arms  $A$   $A'$ , which correspond approximately to each other in length and have two free ends adapted to be drawn together and held by a clamping device which also is adapted to engage a connection to the shade-holding ring. The arm  $A$  is formed with an outwardly-extending free end  $A^2$ , while the arm  $A'$  is formed with a corresponding outwardly-extending free end  $A^3$ . The said clamping-band is integral with the inwardly-projecting horizontally-arranged supporting-plate  $B$ , which extends out radially from the inner edge of the clamping-band, the said supporting-plate being integral with the shade-holding ring. This shade-holding ring comprises the parts  $C$  and  $C'$  at about right angles to one another, with the lugs  $C^2$  located at equal distances apart and carrying the shade-supporting screws  $D$ . The clamp-

ing-band is secured upon the lamp-socket preferably by a clamping-screw  $E$ , which passes through the free ends  $A^2$  and  $A^3$  of the band, the end  $A^2$  being for that purpose formed with a threaded opening  $a$ , while the end  $A^3$  is formed with a simple opening  $a'$ , as shown in Fig. 5. These free ends and the clamping-screw are connected with the shade-holding ring by a suitable device. I have shown such a device comprising a connection  $F$ , located in a plane which intersects the center of the clamping-band, and through the slot  $f$  therein the clamping-screw  $E$  passes in connecting the parts. This connection is preferably a finger-plate turned upward into a plane parallel with the plane of the ends  $A^2$  and  $A^3$  from the inner edge of an arm  $C^3$ , extending inward from the part  $C$  of the shade-holding ring at a point nearly opposite the plate  $B$  before mentioned.

By making the two arms of the clamping-band of approximately equal length and providing for adjusting them toward and away from the connection arranged as described I guard against the shifting of the center of the band when the same is adjusted to accommodate it to sockets of different sizes. On the other hand, it will be readily understood that if the arms of the band do not correspond in length and if they are not gaged in position by a connection located in a plane intersecting the center of the band and between the free ends of the arms, as described, the center of the band would be shifted in position by the adjustment of the arms toward and away from each other, so that the lamp would not always be concentric with the shade, which would interfere with the appearance. The form of the slot in the connection permits the clamping-screw to move inward or outward, according as the arms are separated or are drawn together. When the arms are drawn together, the screw moves inward in the slot, while when they are allowed to spring outward the screw moves outward in the slot.

For stiffening the shade-holder and enhancing its appearance the part  $C$  is provided with a rib  $G$ , the ends of which terminate upon the plate  $B$ , as hook-like extensions  $G$  and  $G'$ , which impart stiffness to the arm and assist the same in supporting the integral clamping-band. The arm  $C^3$  is also provided



with a V-shaped rib H for increasing its stiffness.

As will be understood from the foregoing description, the entire holder is struck up  
5 from a single piece of sheet metal and requires no soldering or riveting of any kind. I am thus enabled to make the holder at a minimum expense and to secure an article which has an acceptable style and finish.

10 I claim as my invention—

1. A holder for the shade of an electric light, comprising a shade-holding ring, a single integral radial plate extending inwardly therefrom, a clamping-band integral with the  
15 said plate comprising two arms, each having a free end, and a connection between the shade-holding ring and the free ends of the clamping-band, all the parts being formed in one piece from sheet metal, and a clamping  
20 device at the said connection and ends of the band, substantially as and for the purposes set forth.

2. A holder for the shade of an electric light, comprising a shade-holding ring, a single integral radial plate extending inwardly  
25 therefrom, a clamping-band integral with the said plate comprising two arms, each having a free end, and a connection between the shade-holding ring and the free ends of the clamping-band, all the parts being formed in  
30 one piece from sheet metal and the shade-holding ring having a circular stiffening-rib extending upon the integral plate, and a clamping device at the said connection and ends of the band, substantially as and for the  
35 purposes set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

EDGAR A. RUSSELL.

Witnesses:

FRED C. EARLE,

GEORGE D. SEYMOUR.