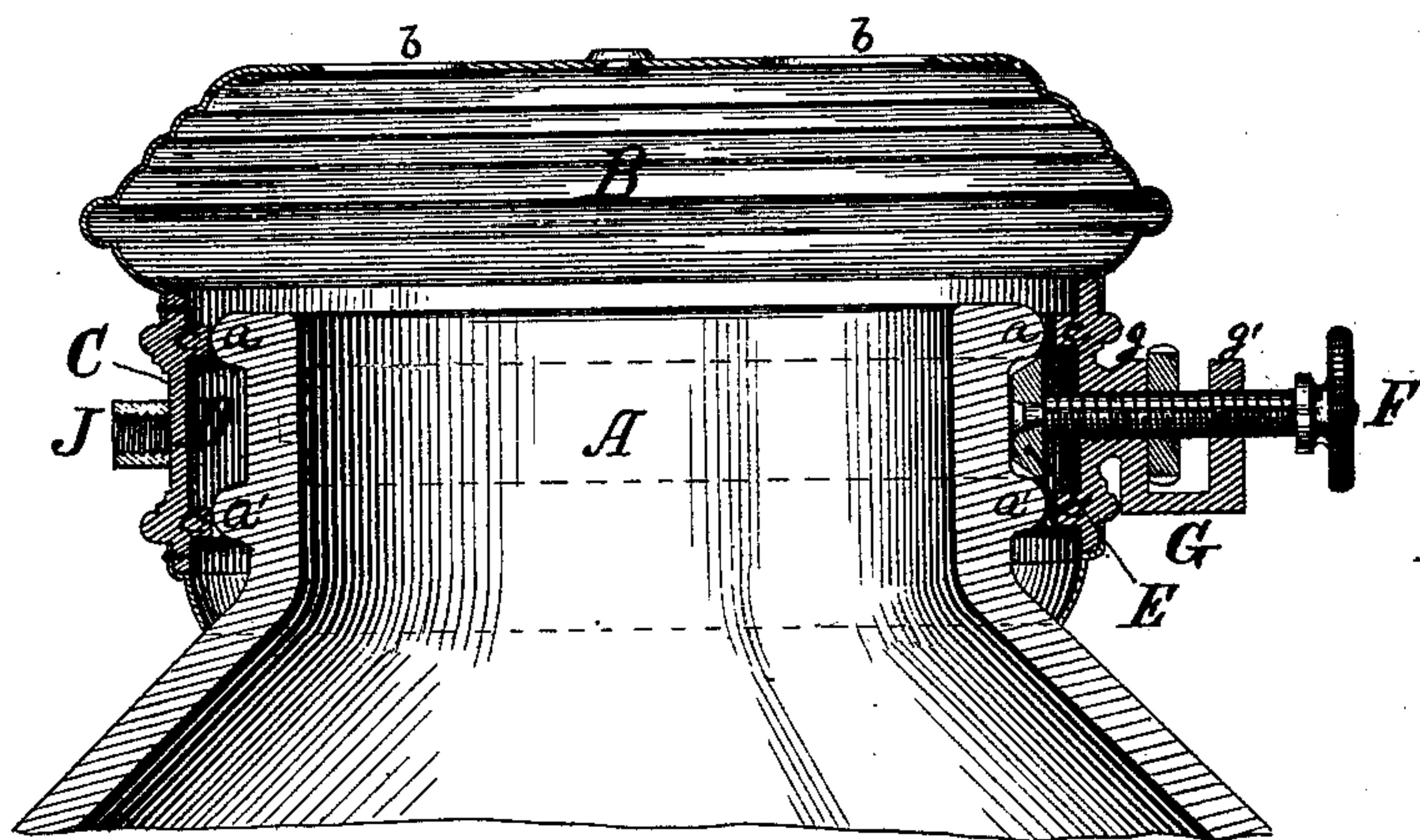


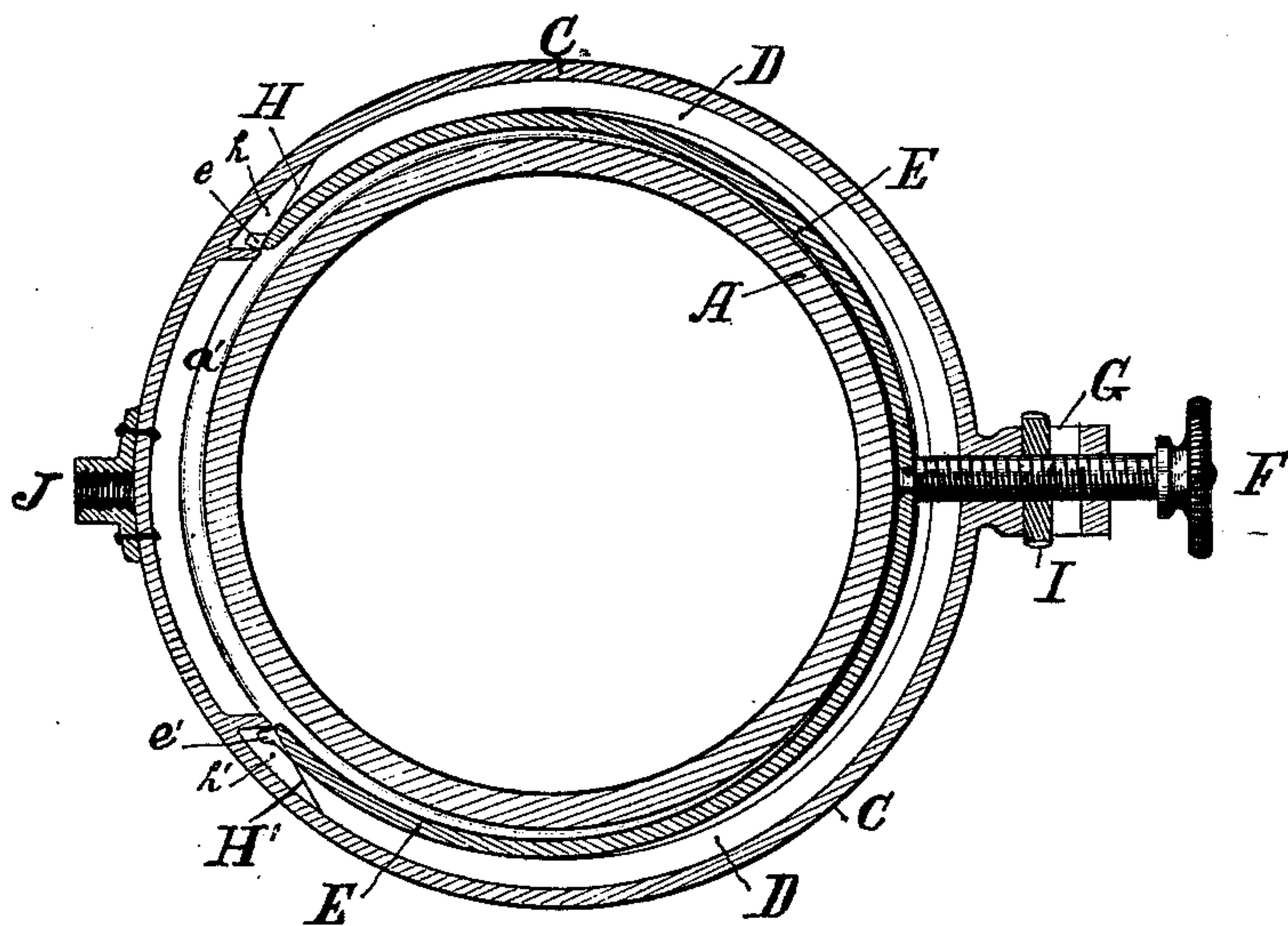
J. GRAFF.  
Shade-Supporter.

**No. 218,378.**

**Patented Aug 12, 1879.**



***Fig. 1***



*Fig. 2*

*Attests*

*John D. Jolley*  
John D. Jolley, Jr.

*Inventor*

John Traff;  
By his Attorneys,  
W. C. Krawbridge,  
J. Bonnell Taylor



# UNITED STATES PATENT OFFICE.

JOHN GRAFF, OF NEW YORK, N. Y., ASSIGNOR TO CORNELIUS & CO., OF PHILADELPHIA, PA.

## IMPROVEMENT IN SHADE-SUPPORTERS.

Specification forming part of Letters Patent No. **218,378**, dated August 12, 1879; application filed May 19, 1879.

*To all whom it may concern:*

Be it known that I, JOHN GRAFF, of New York city, State of New York, have invented a new and useful Improvement in Shade-Supporters, of which the following is a full, clear, and true description, reference being had to the accompanying drawings, forming part hereof, in which—

Figure 1 is a central sectional elevation of the holder applied to the shade, the latter being but partially represented; and Fig. 2 a horizontal section of the same, viewed from above, the section being supposed in the plane of the clamping-screws.

Similar letters of reference indicate corresponding parts wherever used.

My invention relates to wall-brackets and other supporters which are employed to hold glass or other shades—such, for instance, as are used in connection with Argand burners, lamps, or the like; and it has especial reference to the brackets designed to support the conical shades of the lights of railroad-cars.

It relates more specifically to that subdivision of the above class which hold the shade from the top or neck, as opposed to those which support a shade from the base.

It consists in a top-supporter embodying in its construction a clamping device to seize and retain the shade, and a locking device to retain said clamping device in position against and upon the shade, all substantially as hereinafter set forth and claimed.

In the drawings, A represents the neck or top portion of a common conical shade; *a a'*, the neck-beads upon the same. B is the cap of the holder, having an inclosing-shell of light metal or other fit material, perforated at *b b* to permit the escape of the heat. C is the clamp-collar, a cylinder projected downward from the cap, and connected thereto. It is suitably shaped and ornamented upon its exterior, and is provided upon its interior with ribs *c c'*, corresponding in position to the beads upon the neck of the shade, which ribs form between them a circular recess, D, within which is placed the clamp E.

The clamp E consists of a curved spring-plate corresponding to the recess D, and extending in length to, preferably, about three-

quarters the extent thereof. At its central portion the clamp has a swivel-connection with a clamp-screw, F, which latter is threaded through a double bearing, G, affixed to the exterior of the collar C. At its extremities the clamp bears against two opposing inclines, H H', formed within the recess D.

Toes *e e'* upon the extremities of the clamp have a slide-bearing in grooves *h h'*, seated within the inclines H H', the object of such arrangement being for convenience in maintaining the lateral position of the clamp.

The clamp is formed of elastic material, and is compressed when first put in place, so that its tendency is to press constantly outward against the recess, except when compressed inward against the shade by means of the clamp-screw F.

I is a lock-nut, threaded upon the shank of the clamp-screw F, between the heads *g g'* of the bearing G, the object of which lock-nut is, by its wedging action when tightened up against either head of the bearing, to lock the clamp-screw in any given position. J is the socket upon the collar C, to which a bracket, arm, or other support for the holder is secured.

In the application of the shade, the lock-nut being first loosened and the clamp-screw screwed back, so as to draw the clamp into the recess, (the elasticity of the clamp aiding in the same,) the shade is inserted within the holder, as represented in Fig. 1. The clamp-screw is then screwed up, so as to force the clamp out of its recess against the neck of the shade and into the depressed portion thereof which is between the beads *a a'*, the inclines *h h'* aiding the above action by projecting the extremities of the clamp away from the recess and against the neck of the shade. The lock-nut I is then screwed up against the head *g* of the bearing G, and the shade thus tightly secured in place. In removing the shade the action is reversed.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination, with the collar-piece C of the shade-holder B, provided with recess D, of a one piece spring-clamp, E, located within said recess of the collar-piece, and connected

with and swiveled to the clamp-actuating screw F, by the action of which latter said clamp is forced against the neck of the shade A, substantially as described.

2. In combination, the inclines H H', located within the recess D of the collar C, and the clamp E, as and for the purposes set forth.

3. The combination of the collar C, provided with the recess D and inclines H H', the clamp

E, provided with the clamp-screw F, and the shade A, substantially as described.

In testimony whereof I have hereunto signed my name this 16th day of May, A. D. 1879.

JOHN GRAFF.

In the presence of—

EDWARD A. C. KAYSEL,

JULIUS KAYSEL.