

No. 730,721.

PATENTED JUNE 9, 1903.

J. C. TOURNIER.
GLOBE HOLDER FOR ARC LAMPS.
APPLICATION FILED NOV. 13, 1899.

NO MODEL.

Fig. 1.

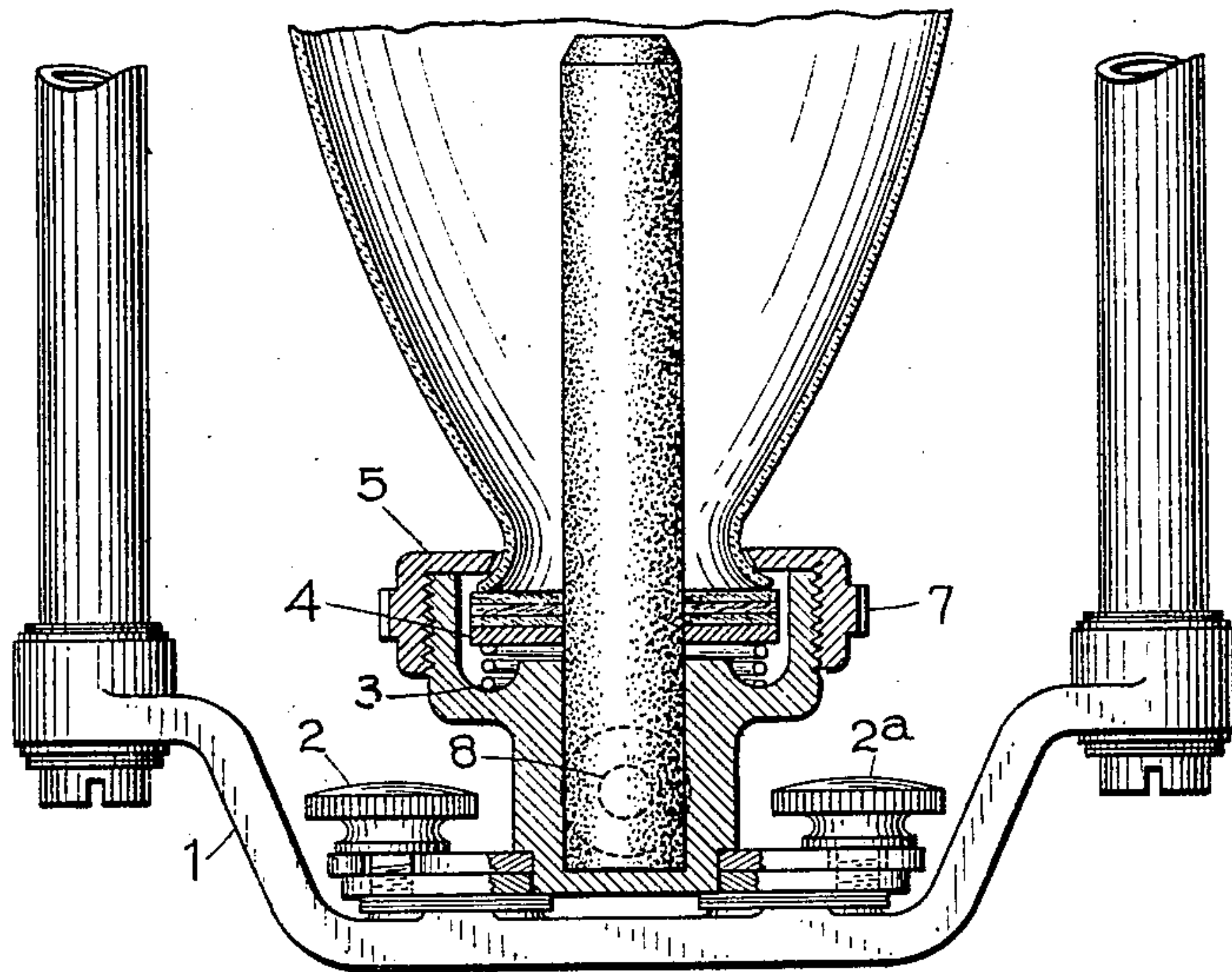
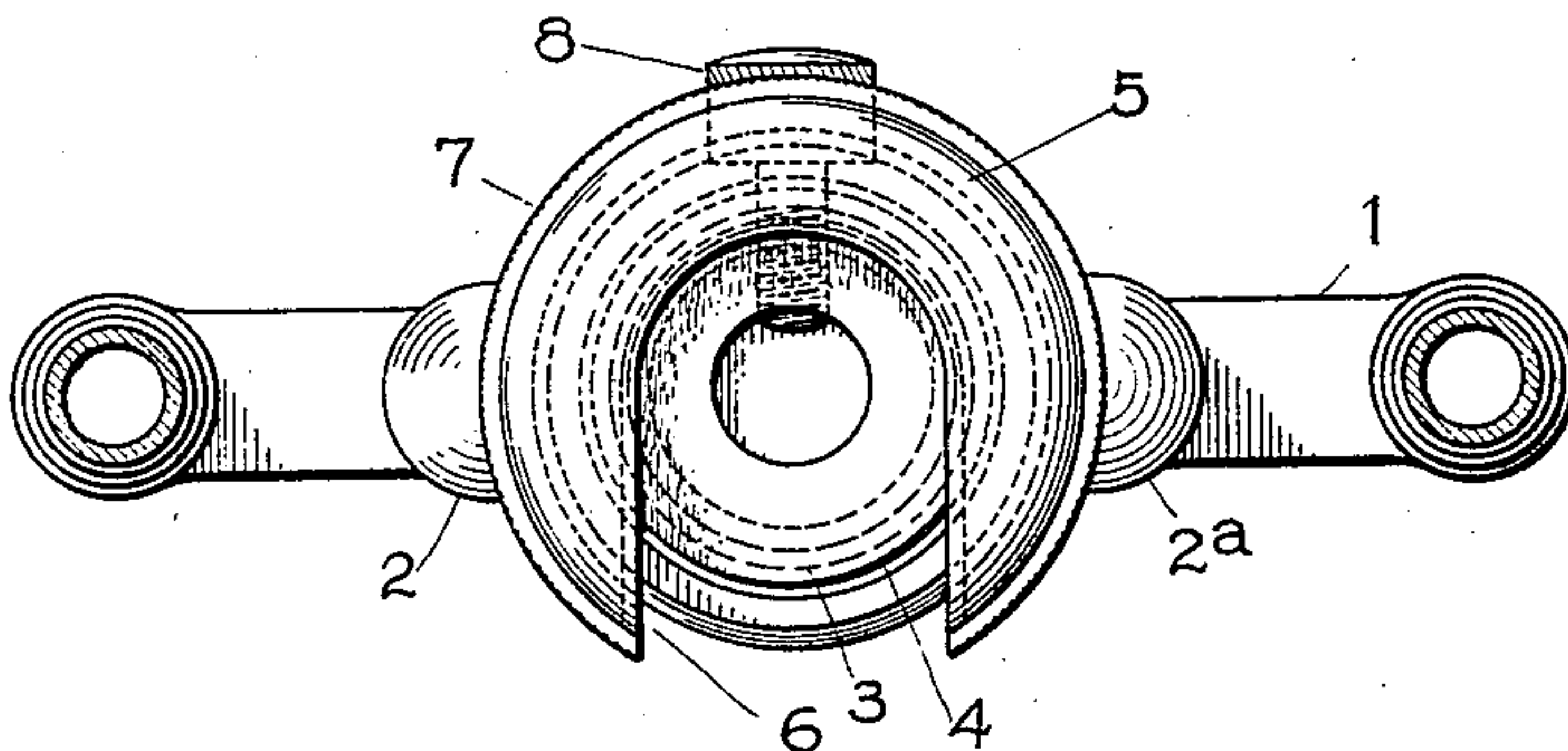


Fig. 2.



Witnesses.

Lewis D. Abell.
Alex. F. Macdonald.

Inventor.
Julius C. Tournier.
by *Albert G. Davis.*
Atty

UNITED STATES PATENT OFFICE.

JULIUS C. TOURNIER, OF SCHENECTADY, NEW YORK, ASSIGNOR TO THE
GENERAL ELECTRIC COMPANY, A CORPORATION OF NEW YORK.

GLOBE-HOLDER FOR ARC-LAMPS.

SPECIFICATION forming part of Letters Patent No. 730,721, dated June 9, 1903.

Application filed November 13, 1899. Serial No. 736,783. (No model.)

to all whom it may concern:

Be it known that I, JULIUS C. TOURNIER, a citizen of the United States, residing at Schenectady, county of Schenectady, State of New York, have invented certain new and useful Improvements in Globe-Holders for Arc-Lamps, of which the following is a specification.

This invention relates to globe-holders for electric-arc lamps, particularly that type of arc-lamps in which the arc is inclosed in an inner small globe to which the air has restricted access. In lamps of this character the inner globe is made detachable for the purpose of cleaning it and renewing the carbons.

In carrying out my invention I provide a clamping device in which the globe is held in an elastically-yielding seat, from which it may be removed for the purpose of cleaning or renewal of carbons without disassembling the parts. I provide an annular device provided with a lateral opening through which the contracted neck of the arc-inclosing globe may be inserted and means for clamping it to a supporting-base in which is provided an elastic seat for the globe so arranged that it is impossible to crack the globe by overadjustment of the clamp.

The several features of novelty of my invention will be more fully pointed out hereinafter and will be definitely indicated in the claims.

In the accompanying drawings, which illustrate the invention, Figure 1 is a sectional view of a globe-holder embodying my improvements, and Fig. 2 is a top plan view.

The support for the globe-retaining device may be mounted in any suitable way upon the lamp-frame. As shown in the drawings, it is connected to a cross-yoke 1, employed in a common type of inclosed-arc lamps to permit lowering of the globe inclosure, to which it is removably connected by means of a slotted cross-piece held in place by clamp-nuts 2 2^a. The support is recessed on its upper face and contains a spring 3 and metal washer 4, on top of which is placed one or more washers of a yielding fireproof fabric, such as asbestos, which affords a soft seat for the globe-bottom and prevents fracturing. The

globe is held against this elastic seat by means of a clamp 5, provided with means for connection to the base and vertical adjustment, such as the screw-thread indicated in Fig. 1. It has a clamping face or flange engaging the neck of the globe and to facilitate attachment thereto is provided with a lateral opening, so that the globe may be slipped in side-wise for adjustment on the support. This opening is indicated at 6 in Fig. 2. It may be of any desired shape, the only prerequisite being that it may be forced laterally over the contracted bottom of the globe and will then overhang the flaring edge of said bottom. The washer and flare should be of sufficient diameter to engage the overhanging flange of the clamp, so that when the latter is adjusted for removal of the globe and the carbon is removed for purposes of renewal the washers will not be lost. The range of adjustment of the clamp is such that when screwed down to its limit the washer 4 will clear the bottom of the recess in the support, thus preventing fracture of the globe by tightening the clamp against a rigid support, the spring acting at all times as a cushion.

For convenience of manipulation the clamp is provided with a milled edge, as indicated at 7. The support is provided with a cylindrical socket adapted to fit the negative electrode, to which it may be secured by a clamp-screw 8. When it is desired to clean the globe or renew the carbons, the clamp 5 is adjusted vertically and the globe shifted laterally until disconnected from the clamp, and in assembling the parts the operation is conducted in the reverse order.

What I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A globe-holder for an arc-lamp, comprising a support, a clamp having a lateral opening to receive and retain the contracted neck of the globe, and means for adjusting the clamp vertically relative to the globe-seat.

2. A globe-holder for an arc-lamp, comprising a support, a clamp having a lateral opening to receive the contracted neck of the globe, a yielding seat for the neck of the globe on the support, and means for adjusting the clamp vertically relative to the support.

3. A globe-holder for an arc-lamp, comprising

ing an annular clamp provided with a lateral opening to inclose the contracted neck of the globe, an elastic seat in the support for the globe, and an annular screw-threaded connection between the clamp and the support to permit vertical adjustment.

4. A globe-holder for an arc-lamp, comprising a globe-seat, a clamp adjustable relatively to the globe-seat, a yielding cushion on the globe-seat, and a stop for the clamp to arrest adjustment and prevent breakage from over-compression of the spring.

5. A globe-holder for an arc-lamp, comprising a globe-support recessed on its upper face, and provided with a socket for the negative electrode, an elastic globe-seat in said support, and a threaded ring-clamp adjustable axially of the support, said clamp being pro-

vided with an overhanging flange provided with a lateral opening to admit the contracted neck of the globe.

6. A globe-holder for an arc-lamp, comprising a clamp, an elastic seat for the globe and a stop for the clamp within the range of elastic movement of the seat.

7. A globe-holder for an arc-lamp, comprising a screw-clamp, an elastic seat for the globe and a stop for the clamp within the range of elastic movement of the seat.

In witness whereof I have hereunto set my hand this 10th day of November, 1899.

JULIUS C. TOURNIER.

Witnesses:

BENJAMIN B. HULL,
MABEL E. JACOBSON.