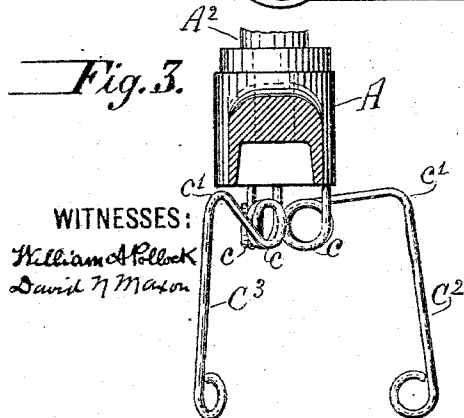
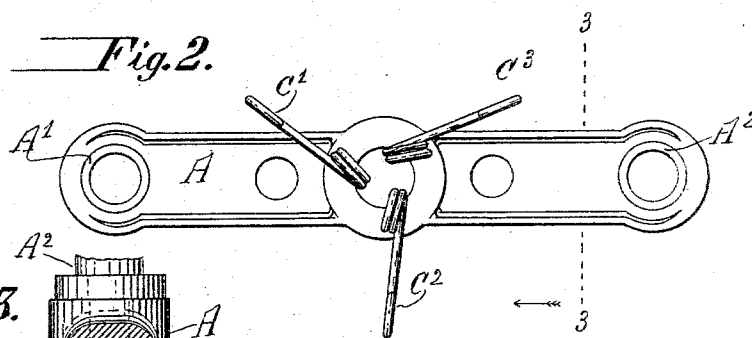
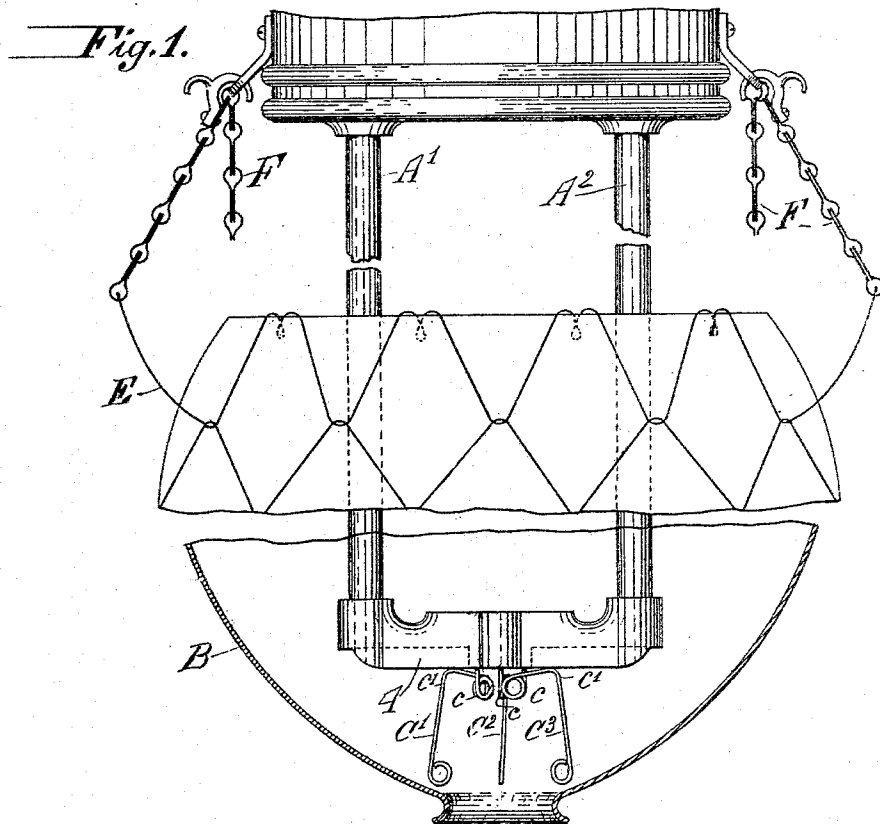


(No Model.)

S. BERGMAN.
SHADE HOLDER FOR LAMPS.

No. 514,639.

Patented Feb. 13, 1894.



WITNESSES:
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SIGMUND BERGMAN, OF NEW YORK, N. Y.

SHADE-HOLDER FOR LAMPS.

SPECIFICATION forming part of Letters Patent No. 514,639, dated February 13, 1894.

Application filed August 3, 1893. Serial No. 482,244. (No model.)

To all whom it may concern:

Be it known that I, SIGMUND BERGMAN, of the city, county, and State of New York, have invented a certain new and useful Improvement in Shade-Holders for Lamps, of which the following is a specification.

My improvement is particularly adapted to electric arc lamps.

The object of my improvement is to protect a lamp globe from injury and breakage, besides insuring its being properly centered.

I will describe a part of a lamp embodying my improvement, and then point out the novel features in a claim.

In the accompanying drawings, Figure 1 is a side view of the lower portion of an electric arc lamp embodying my improvement. Fig. 2 is a bottom view of the same. Fig. 3 is a transverse vertical section taken on the plane of the line 3—3, Fig. 2.

Similar letters of reference designate corresponding parts in all the figures.

A', A² designate two rods such as are commonly used in an electric arc lamp.

A designates a yoke or cross-bar fastened to the lower extremities of said rods, and extending across the space between them. The lower carbon holder is fastened to the yoke or cross-bar A.

B designates the lower portion of a globe D of transparent or translucent glass, such as is commonly used with an electric arc lamp.

It is common, when necessary to supply new carbons, to lower the globe out of its normal position and suspend it from chains F, which

are attached to a globe holder E, to which the upper portion of a globe is fastened. The globe is sustained in the normal position by shortening the chains F, and lowered by lengthening out the chains.

C', C², C³ designate three springs, here shown as made of wire, having coiled portions c fastened at the extremities to the yoke or cross-bar A and having a downward turn c' at about the middle of their length, their free extremities being bent into the form of loops. There may be any number of these springs, and their construction may be varied from that illustrated. They radiate from the yoke or cross-bar A and they fit within the lower portion of the globe. When the globe is in its normal position, its lower portion is in contact with the extremities of the springs and is thereby centered in position.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination with a lamp and a globe suspended by flexible connections with said lamp, of the resilient arms or springs extended from the cross-bar of the lamp frame and adapted to bear at their free ends against the inner side of the lower portion of the globe, substantially as specified.

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

SIGMUND BERGMAN.

Witnesses:

PHILIP H. KLEIN, Jr.,

ISAAC WERTHEIMER.