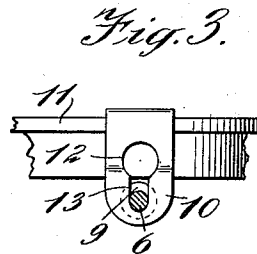
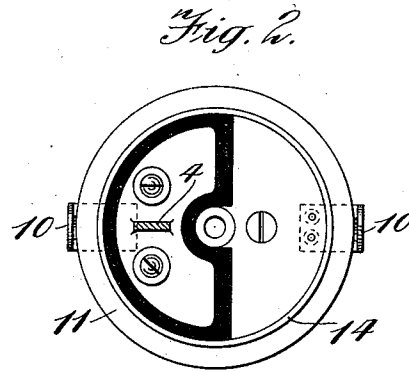
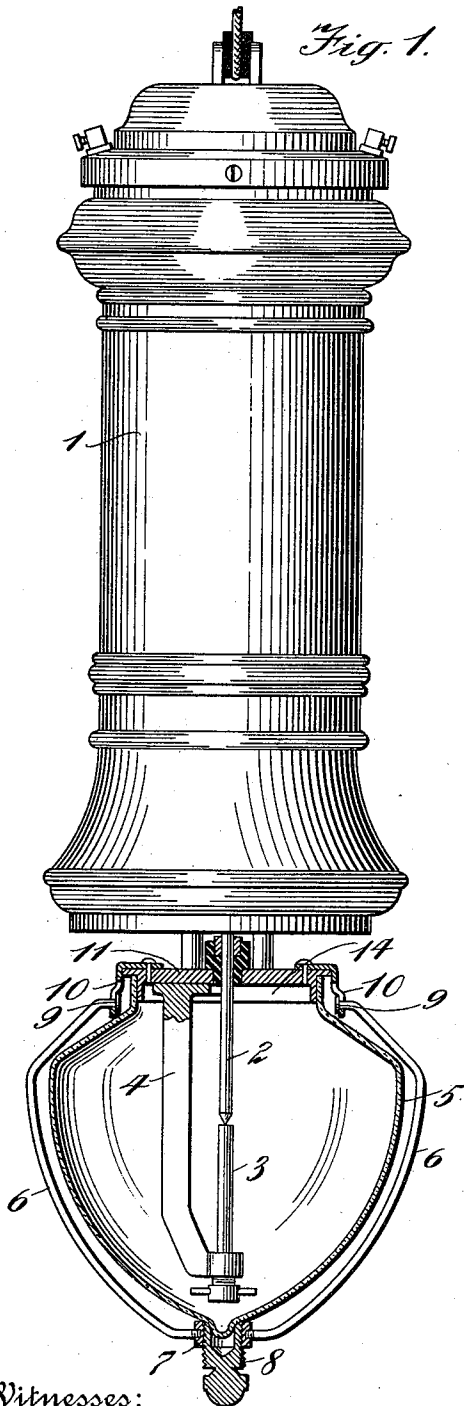


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ARC LAMP CONSTRUCTION.
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1,013,352.

Patented Jan. 2, 1912.



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UNITED STATES PATENT OFFICE.

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ARC-LAMP CONSTRUCTION.

1,013,352.

Specification of Letters Patent.

Patented Jan. 2, 1912.

Application filed May 29, 1908. Serial No. 435,681.

To all whom it may concern:

Be it known that we, MAURICE J. WOHL and HARRY HERTZBERG, citizens of the United States, and residents, respectively, of the city of New York, borough of Manhattan, county and State of New York, and of the city of New York, borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Arc-Lamp Construction, of which the following is a specification.

This invention relates to arc lamp construction and more particularly to the globe support.

It has been found that better results are obtained when the globe inclosing the arc is closed so as to retain the gases therein. In the operation of trimming the lamp or replacing carbons it becomes necessary to remove the globe in order to provide access to the carbons and it is particularly desirable to provide means for doing this quickly and at the same time provide means for holding the globe securely when the same is replaced in position.

The object of this invention is to meet with the above requirements and to accomplish the desired results in a simple and effective manner.

The embodiment of our invention shown in the accompanying drawings illustrating the several features thereof comprises a support for the globe which is removably suspended from the lamp frame in such a manner that the globe and the support may be easily and quickly removed when desired.

A further feature of the invention is in the peculiar and novel construction of the supporting plate which forms a closure for the globe when the same is in position.

The details of construction will be more fully described hereinafter in connection with the accompanying drawings forming a part of this application.

In these drawings like parts in the several views have been given similar reference numbers.

Figure 1 is a side elevation of an arc lamp partially in section showing an embodiment of our invention. Fig. 2 is a bottom plan view of the supporting plate. Fig. 3 is a side view of the supporting plate shown in Fig. 2 partially broken away.

The outer inclosing shell of the arc lamp is shown at 1. The interior construction of this portion of the lamp may be of any desired form and is not shown herein as the same forms no part of this invention.

The lower portion of the lamp shown in Fig. 1 is shown in section. The upper and lower electrodes or carbons are shown at 2 and 3, respectively. The upper carbon 2 is provided with a suitable feeding mechanism and the lower carbon 3 with a suitable support 4. The inclosing globe is shown at 5 and a support for said globe is shown at 6. This support 6 may be conveniently formed from a pair of wire rods which are secured together at their lower ends to a wing shaped member 7 into which is screwed an adjustable engaging member 8 for holding said globe in position thereon. A recess may be provided in this adjustable engaging member in which the pointed lower portion of the globe may rest, all of which is clearly shown in Fig. 1 of the drawings.

The upper ends of the supports 6 are formed with an enlarged portion which holds the same in position in a pair of clips 10 which are attached to the supporting plate 11 on opposite sides thereof as shown. The supporting clips 10 are provided with an opening 12 which is of sufficient size to allow the enlarged end portion 9 of the supports 6 to pass therethrough. Extending from this opening 12 is a slot 13 providing a contracted opening which receives the body portion of the supports 6 which is held thereon by its enlarged end 9. The clips 10 have their lower portions containing the slot 13 offset as shown in Fig. 1. The supports 6 are so positioned and arranged as to have a tendency to spring outwardly and, consequently, when the same are in position in the clips 10 as shown in Fig. 1, this offset portion of the clips prevents the supports from being raised out of the slots 13 unless the same are pressed slightly together. When this is done the supports are easily raised and the enlarged ends 9 are then readily passed through openings in the clips 10 and the support may be removed. This construction also permits the supports 6 when in position as shown in Fig. 1 to be swung to one side, the same being released from the lower projecting

portion of the globe either by unscrewing the engaging member 8 or by springing the supports downwardly. The globe may then be removed and the support left in position or the support itself may be removed as above described if desired.

The supporting plate 11 is provided with a depending flange 14 which is of the same shape and substantially corresponding in size to the opening in the globe 5. It will thus be seen that when the globe is in position as shown in Fig. 1, this depending flange 14 together with the supporting plate 11 form a closure for the globe and all of the gases are retained therein. This depending flange also serves to hold the globe in position and when the support 6 is placed in position around the globe the same is securely held.

It will thus be seen by reason of the several features of construction above described the desired results are accomplished in a simple and efficient manner and a substantial support and holding device is provided which securely holds the globe in position and at the same time permits the globe to be readily removed.

As many changes could be made in the above construction and many apparently widely different embodiments of our invention designed without departing from the

scope thereof, we intend that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative merely of an operative embodiment of our invention and not in a limiting sense.

What we claim is:

In combination with an arc lamp, a globe inclosing the arc, a spring support for said globe removably suspended and provided with an enlarged portion at either end thereof, and a pair of clips attached to the frame of said arc lamp each having a larger opening through which said enlarged portions of said support may be passed and a contracted opening in which the body portion of said support is suspended, the part of said clips having the contracted opening being offset from the part having the larger opening, said spring support being held in said offset portion of said clips by reason of its resiliency.

Signed at Brooklyn, N. Y. city, in the county of Kings and State of New York, this 18th day of May, 1908.

MAURICE J. WOHL.
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Witnesses:

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