

No. 804,843.

PATENTED NOV. 21, 1905.

P. C. HEWITT.

LEADING-IN CONDUCTOR FOR ELECTRIC VAPOR APPARATUS.

APPLICATION FILED MAR. 26, 1904.

Fig. 1

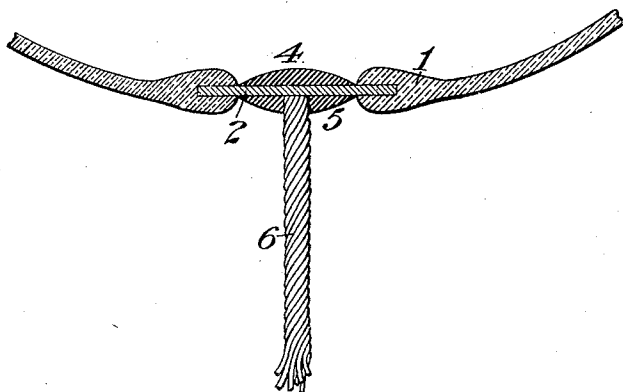
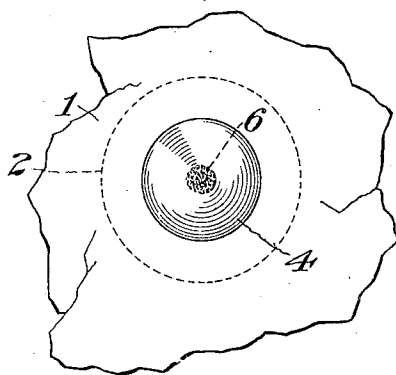


Fig. 2



Witnesses
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UNITED STATES PATENT OFFICE.

PETER COOPER HEWITT, OF NEW YORK, N. Y., ASSIGNOR TO COOPER HEWITT ELECTRIC COMPANY, OF NEW YORK, N. Y., A CORPORATION OF NEW YORK.

LEADING-IN CONDUCTOR FOR ELECTRIC VAPOR APPARATUS.

No. 804,843.

Specification of Letters Patent.

Patented Nov. 21, 1905.

Application filed March 26, 1904. Serial No. 200,148.

To all whom it may concern:

Be it known that I, PETER COOPER HEWITT, a citizen of the United States, and a resident of New York, county of New York, State of New York, have invented certain new and useful Improvements in Leading-In Conductors for Electric Vapor Apparatus, of which the following is a specification.

It is important to provide vapor-converters or other vapor electric apparatus with good means of connection from the exterior of the container to the mercury or other electrode inside the container. The connection thus made should not only be electrically good, but the juncture of the leading-in devices with the glass of which the container is usually made should be of such a character or so protected as to make and maintain a good mechanical seal.

I have found that a good seal and proper electrical connection can be obtained by setting into the glass a disk of metal or other material with a suitable expansion factor, such as platinum, properly sealing the glass to the edges of the disk, and reinforcing the disk by a suitable material, which reinforcement when platinum is used may be accomplished by employing copper, as will be explained farther on.

The invention is illustrated in the accompanying drawings, in which—

Figure 1 is a detail view of the connecting means above referred to, and Fig. 2 is a plan view.

Referring to the drawings, 1 is a portion of a glass container for gas or vapor electric ap-

paratus, and 2 is a disk of platinum or other material sealed therein. I reinforce the said platinum disk by a disk 4 of copper on one side and a ring 5 of the same material on the opposite side. The lead-wire 6, which may also be of copper, is generally applied to the platinum disk through the opening in the ring 5. The copper and platinum being brazed together, an excellent electrical connection is made, while the sealing of the platinum disk within the glass is sufficient for mechanical purposes. The same effects may be accomplished by flowing the copper over the platinum hot.

The described connection is suited to vapor apparatus of varying capacities.

I claim as my invention—

1. In combination with the glass container of a vapor apparatus, a platinum disk sealed into the glass, and one or more reinforcing pieces of copper attached to the disk.

2. As an article of manufacture, a glass vessel and a disk of platinum having one or more reinforcing pieces of copper joined thereto, the platinum disk being sealed into the glass.

3. As an article of manufacture, a glass vessel, a platinum plate sealed into the glass, and a protecting-face upon the platinum plate.

Signed at New York, in the county of New York and State of New York, this 7th day of March, A. D. 1904.

PETER COOPER HEWITT.

Witnesses:

WM. H. CAPEL,

GEORGE H. STOCKBRIDGE.