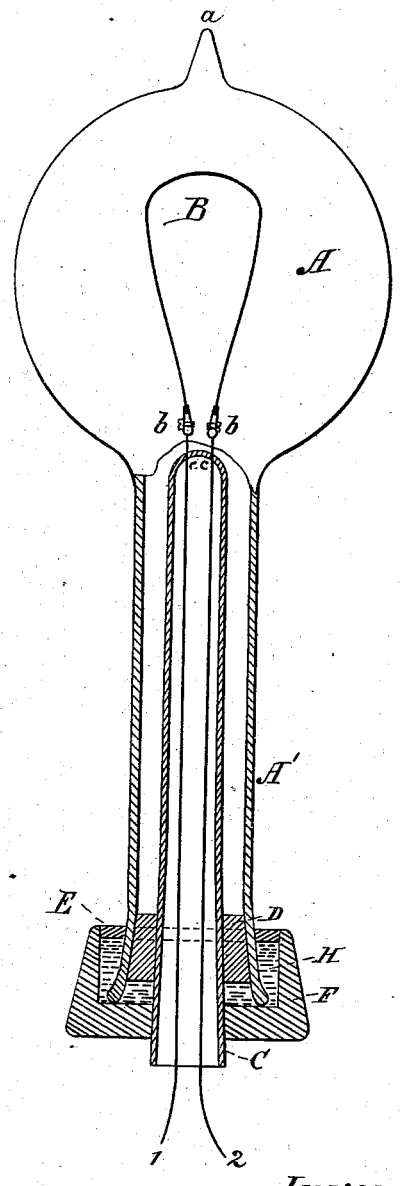
(Model.)

T. A. EDISON.
Electric Lamp.

No. 239,373. Patented March 29, 1881.



Witnesses:

S. D. Mott

James A. Payne.

Inventor:

T. A. Edison.

per Dyer & Miller

Attorneys.

UNITED STATES PATENT OFFICE.

THOMAS A. EDISON, OF MENLO PARK, NEW JERSEY.

ELECTRIC LAMP.

SPECIFICATION forming part of Letters Patent No. 239,373, dated March 29, 1881.

Application filed August 17, 1880. (Model.)

To all whom it may concern:

Be it known that I, THOMAS A. EDISON, of Menlo Park, in the county of Middlesex and State of New Jersey, have invented a new and useful Improvement in Electric Lamps; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

This invention relates to a new method of manufacturing electric lamps, wherein an incandescing conductor is sealed in an exhausted inclosing-globe; and it consists in the features more particularly hereinafter described and claimed.

In patents hitherto granted me are shown lamps hermetically sealed by a fusion of the glass at the union of the parts, making a permanent lamp of great durability. Sometimes, however, it may be desirable to make a lamp in which a less permanent seal is used, involving a less expensive method of sealing, and which may be taken apart readily for the substitution of a carbon or for other purposes. The drawing (one figure) illustrates such a lamp.

A is the inclosing-globe, made with a long neck, A′, through which may be passed the carbon B, attached to clamps *b b*, connected to conductors 1 2, which are sealed in the top of a tube, C, at *c c*, the tube C being somewhat smaller than the neck A′. Around the base of C is a soft-rubber plug, D, which fits into the lower part of the neck A′, forming a tight joint between the two, supporting C and the carbon in position in A′ and A.

F is a socket or cup, through the bottom of which, by a tight joint, passes the end of C, the end of D resting in the cup. At the top of the cup a washer, E, of soft rubber, fills tightly the space between A′ and the inner wall of the cup F, the space in the cup being filled with mercury H or other suitable liquid.

The lamp so put together is exhausted and then sealed at *a* in the usual manner, the combination of the cup F, plugs or washers D and E, and the mercury H forming a reliable seal.

What I claim is—

The combination, with the neck of the inclosing-globe and the carbon-supporting tube, of a cup containing a liquid receiving the end of the neck of the inclosing-globe, and through which passes the carbon-supporting tube, and washers or plugs filling the space between the neck and cup and the neck and tube, substantially as set forth.

This specification signed and witnessed this 7th day of August, 1880.

THOS. A. EDISON.

Witnesses:

WM. CARMAN,

OTTO A. MOSES.