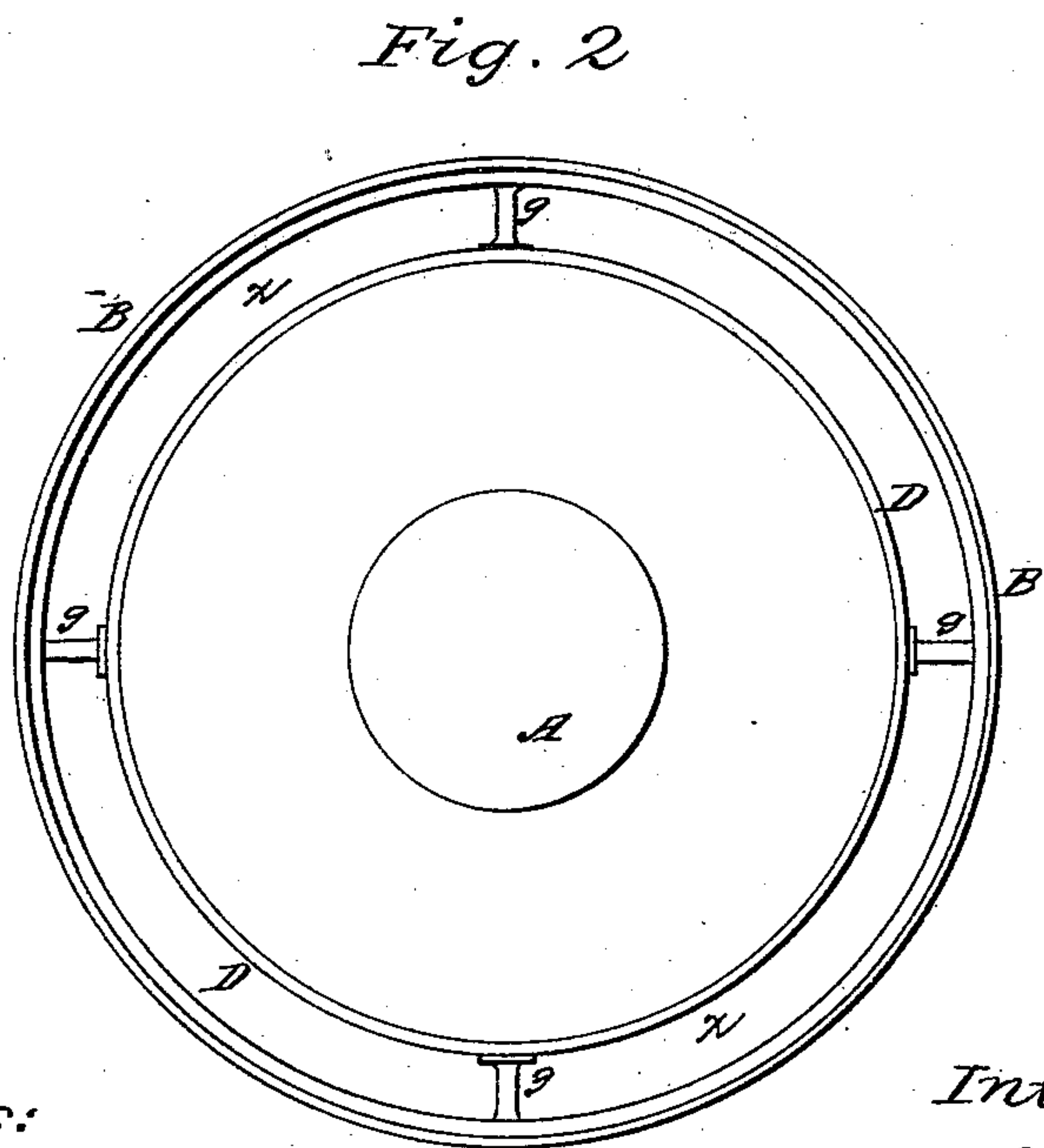
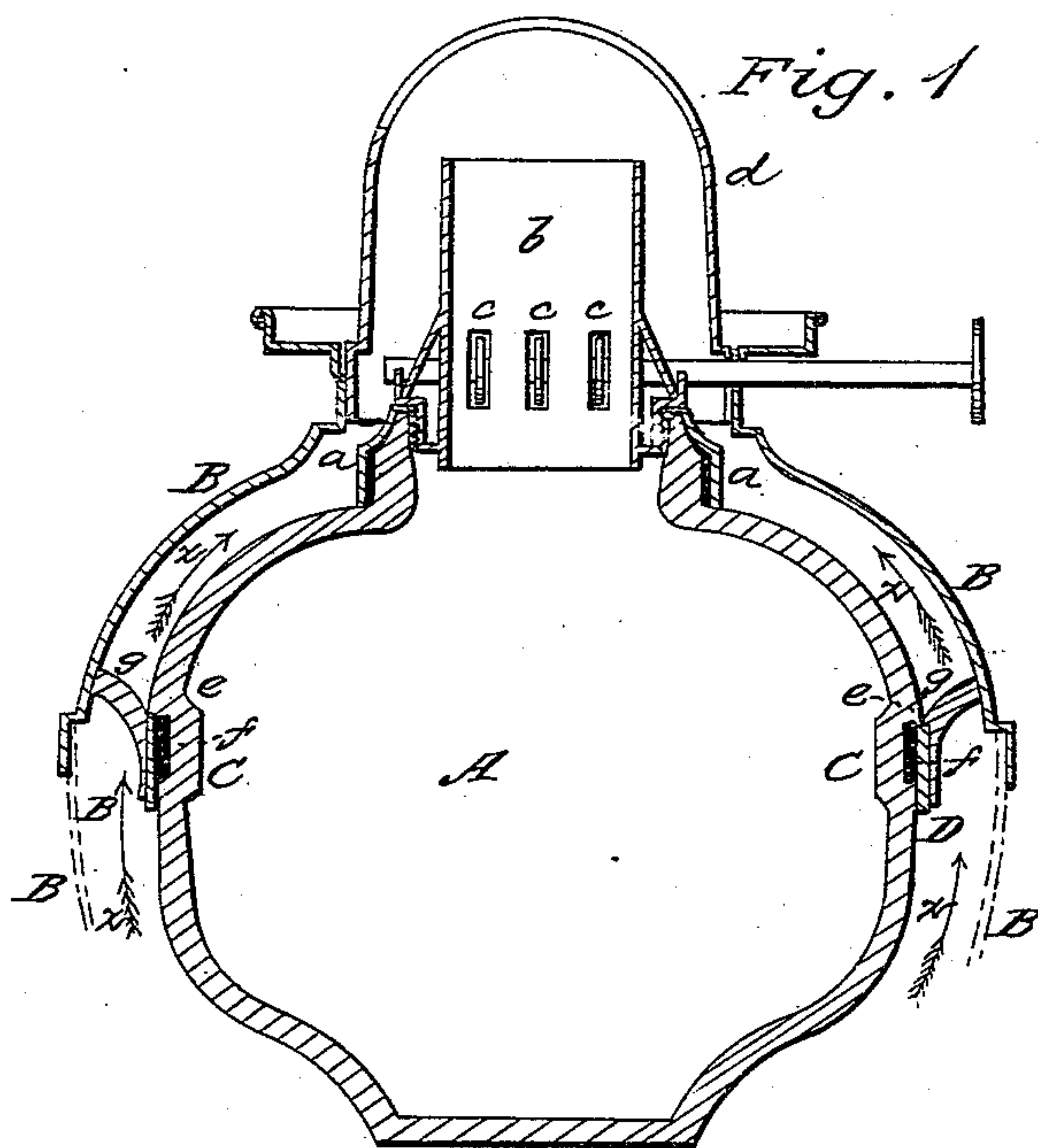


M. B. DYOTT.

Lamp.

No. 64,508.

Patented May 7, 1867.



Witnesses:
Wm. Albert Searl.
Howlathan.

Inventor:
M. B. Dyott
By his atty
H. Howson

United States Patent Office.

MICHAEL B. DYOTT, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 64,508, dated May 7, 1867.

IMPROVEMENT IN LAMPS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, MICHAEL B. DYOTT, of Philadelphia, Pennsylvania, have invented an Improvement in Lamps; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

My invention relates to an improvement in lamps, having in their bases and stems automatic mechanism for forcing a supply of air to the burners; and my improvement consists of a reservoir of glass, earthenware, or other equivalent material, suspended within an outer casing, substantially as described hereafter, so that there can be no leakage of coal oil to interfere with the proper operation of the delicate mechanism below.

In order to enable others skilled in the art to make and use my invention, I will now proceed to describe its construction and operation, reference being had to the accompanying drawing, which forms a part of this specification, and in which—

Figure 1 represents in section sufficient of a coal-oil lamp to illustrate my improvement; and

Figure 2, a plan view.

A is the reservoir or fountain for containing the petroleum, and B the outer casing, between which and the reservoir intervenes a space, *x*, as usual in lamps of this class, for the passage of air propelled to the burners by a fan moved by clock-work in the base. To the mouth of the reservoir is cemented the ordinary annular cup *a*, into which is screwed the base of the flat-wick tube *b*, over which is arranged the slotted dome *d* secured to the outer casing B. The burner is too similar to those of ordinary lamps to need further description. In lamps of this class it has been usual to make the reservoir of metal with soldered joints, which present but an imperfect medium to resist the penetrating action of the petroleum. The reservoirs are consequently apt to leak, and the petroleum consequently to drop on to and to interfere with the proper operation of the delicate works below. Instead of making the reservoir of metal, I make it of glass, earthen or pottery ware, or equivalent material, capable of resisting the penetrating action of petroleum, and in one piece. In the present instance I suspend the reservoir within the outer casing in the following manner: An annular recess, *f*, is formed round the middle of the reservoir, and this recess is packed with suitable cement, *c*, against which fits a ring, D, of metal, the latter fitting tightly to and surrounding the reservoir, and the upper edge *e* of the recess resting on the upper edge of the ring, which is connected to the interior of the casing B by any suitable number of brackets, *g*. The cement covers any irregularities in the glass, and forms a smooth surface to be clasped by the ring D. The ring, however, may be bound directly to the reservoir without the intervention of the cement.

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

1. A reservoir or fountain, of glass, earthenware, or other equivalent material, suspended within the outer metal casing B, substantially as and for the purpose herein set forth.
2. The combination of the glass or earthenware reservoir A, metal ring D, brackets *g*, and outer casing B, the whole being arranged substantially as described.
3. The cemented recess *f*, the projecting upper edge *e* of the same, and the ring D.

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

MICHAEL B. DYOTT.

Witnesses:

H. HOWSON,

W. J. R. DELANY.