

J. H. EYRSE.
Street Lamps.

No. 143,000.

Patented September 23, 1873.

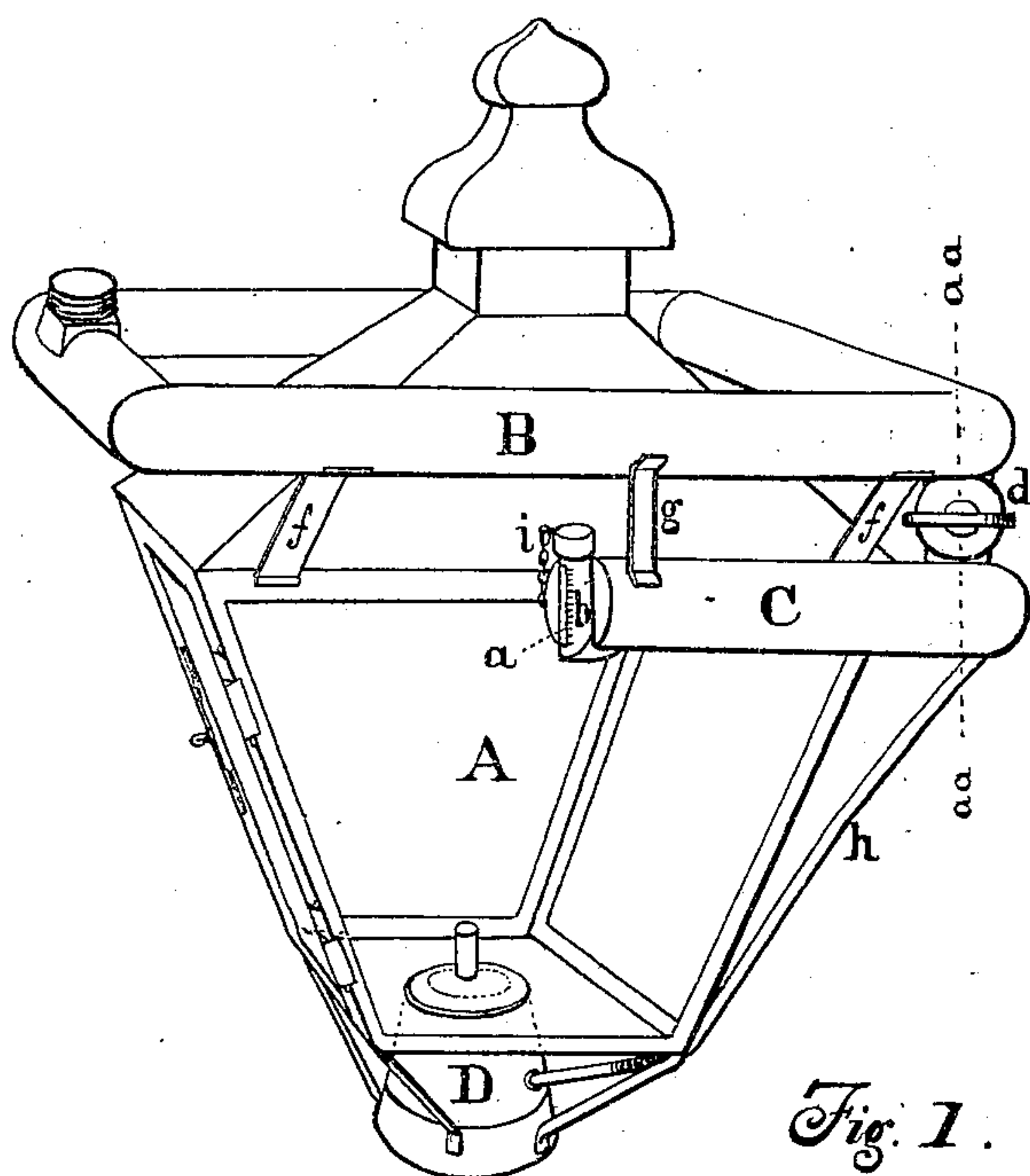


Fig. 1.

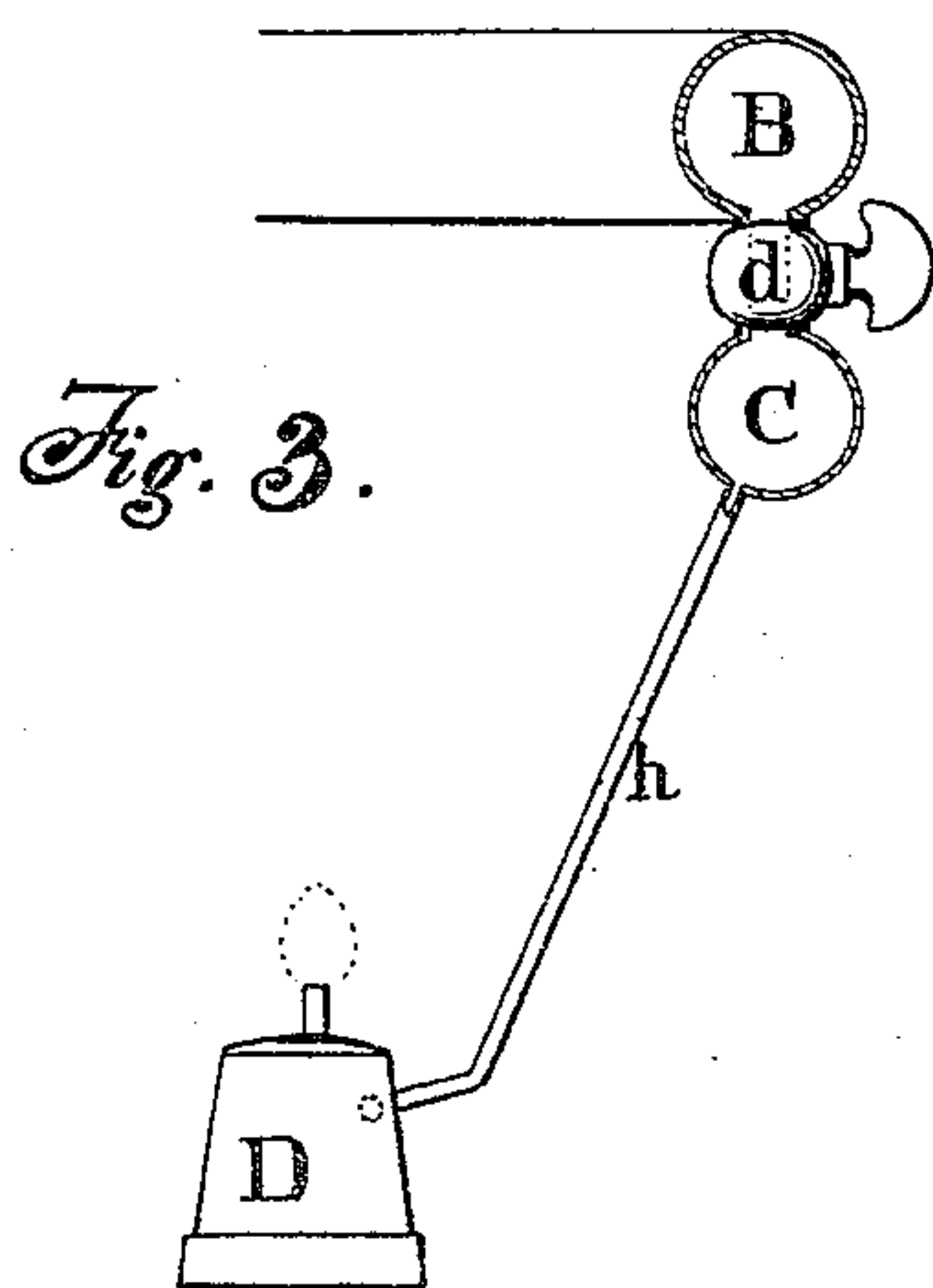


Fig. 3.

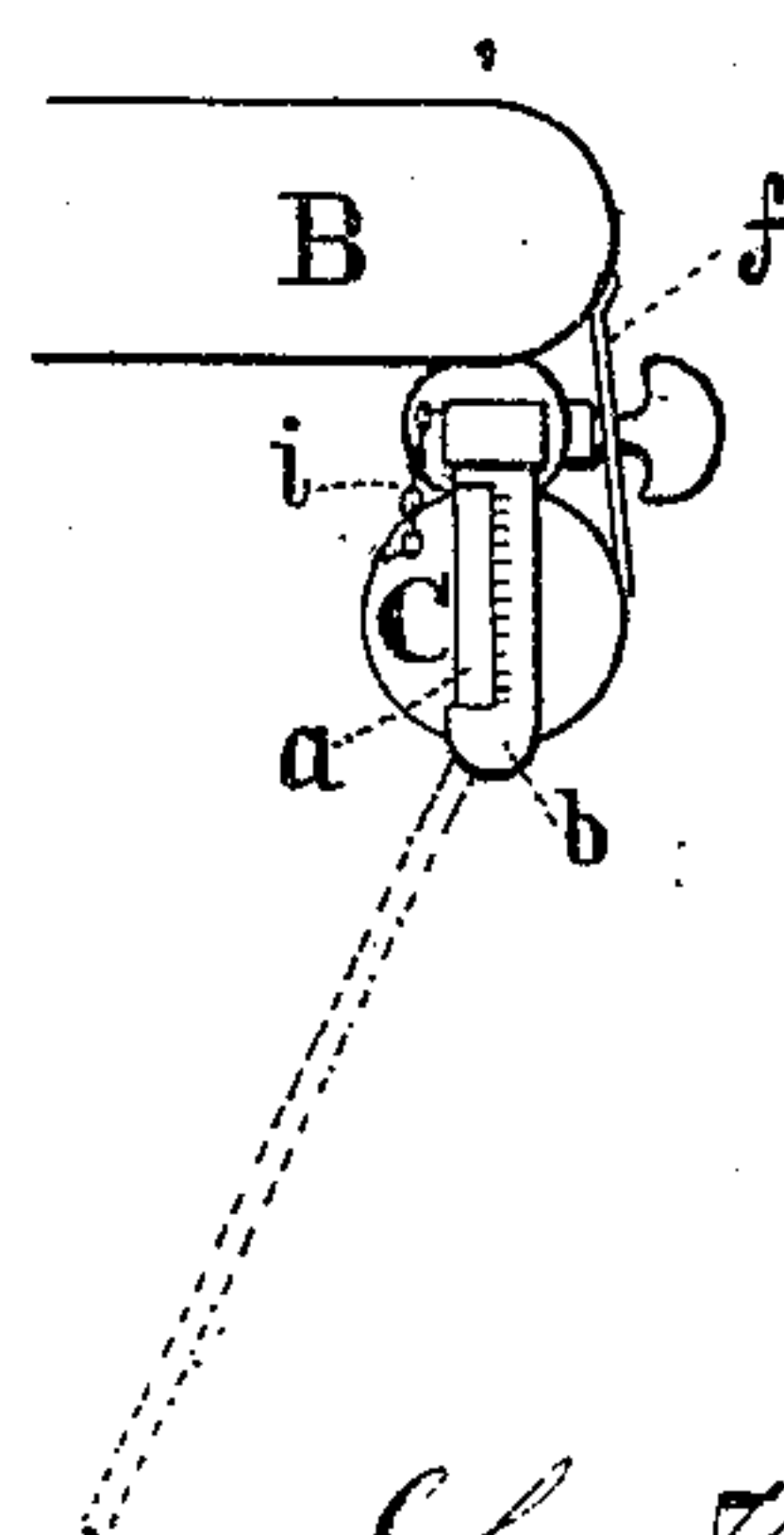


Fig. 2.

Witnesses
Jas. A. Anderson
J. H. Eyse

John H. Eyse,
by C. Thuston,
his atty.

UNITED STATES PATENT OFFICE.

JOHN H. EYRSE, OF PEKIN, ILLINOIS.

IMPROVEMENT IN STREET-LAMPS.

Specification forming part of Letters Patent No. 143,000, dated September 23, 1873; application filed August 9, 1873.

To all whom it may concern:

Be it known that I, JOHN H. EYRSE, of the city of Pekin, in the county of Tazewell and in the State of Illinois, have invented an Improvement in Gasoline or Fluid Lamps; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the annexed drawings, making a part of this specification, in which like letters of reference refer to like parts, and in which—

Figure 1 represents a perspective view of a street-lamp for burning gasoline, petroleum, or other fluids; Fig. 2, an end elevation of primary and secondary reservoirs (showing index to the latter) of said lamp; Fig. 3, vertical section of the primary and secondary reservoirs at the cock or uniting-pipe along line *a a*—*a a*, Fig. 1.

This is an improvement in such lamps for streets, or otherwise, which have a reservoir for the illuminating or burning fluid above the burner, or around the top of the lamp; and consists in running the fluid from said reservoir into a lower chamber, or second and smaller reservoir, in such a measured quantity or supply as will serve for the burning of the lamp for any required number of hours, an index or measuring-scale being attached for that purpose, communicating with the interior of the said smaller or lower reservoir, after which the light expires without the trouble of putting it out, as is usual with street-lamps.

In the drawings, A represents a street-lamp; B, the reservoir containing the illuminating-fluid, running (as in a common form) around the top of the lamp or frame, and supported by the arms *f f*, &c. Its communication with the burner D is through a secondary reservoir, C, below it, the passage between B and C being closed by stop-cock *d*.

The reservoir C may be attached to the lamp A in any effective manner, (I am now describing one of the forms in which I construct this invention,) or be fastened to the upper reservoir B by arms *g*, and is provided with a graduated scale of marks indicating hours or fractions of the same, having a glass,

a, so that the height of the fluid within can be seen against said glass. The latter may be a vertical tube partially inclosed in a case and set over or against an opening in the reservoir C, and cemented to said opening. In place of this form the reservoir may have a glass inserted in one side or end of it over a vertical opening, the side of the latter being graduated. The reservoir C communicates by the usual pipe, *h*, with the burner or generator D, or lamp proper beneath it. The index *b* may be graduated with marks vertically to the number of 8, 9, 10, 11, or 12, each space between them indicating the consumption necessary for one hour.

I also use another form of this invention, without the reservoir B, the cock being then in the supply-pipe below.

The operation of this invention is as follows: The primary reservoir B may contain enough illuminating-fluid to burn for several nights; but for a shorter time the proper amount of fluid to supply a light for a stated number of hours is passed from B, by the cock *d*, into the reservoir C, charging the same up to the index-mark corresponding with the number of hours the lamp is required to burn, and closing the cock *d*. The lamp, or rather light, will expire at the end of the number of hours indicated for want of supply, thus obviating the employment of labor to visit each lamp (if street-lamps) and extinguish them—a great economy of labor, and a corresponding saving of burning material.

What I claim as my invention is—

The combination and arrangement of the lamp A, burner D, supply-pipe *h*, reservoir C with its indicator *a b*, cock *d* in the passage to the reservoir B, and the reservoir B, as described.

In testimony that I claim the foregoing improvement in lamps I have hereunto set my hand this 30th day of July, A. D. 1873.

JOHN H. EYRSE.

Witnesses:

JAMES M. MORSE,
HENRY W. WELLS.