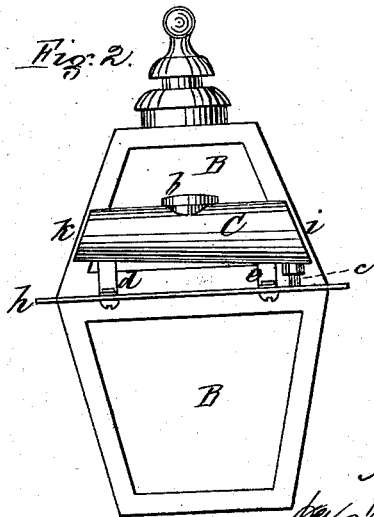
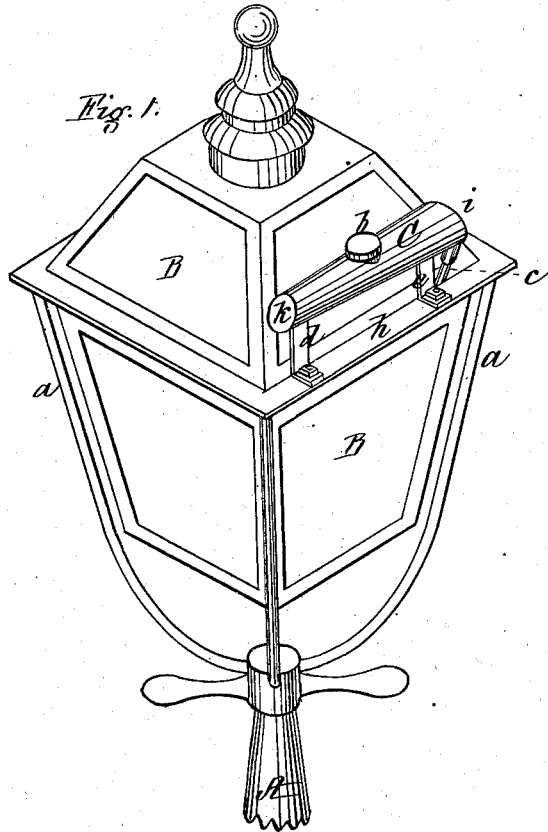


A. H. WATKINS.
Reservoir for Street-Lanterns.

No. 165,042.

Patented June 29, 1875.



Witnesses,
W. J. Cambridge
Chas. C. Griffin

Inventor,
Albert H. Watkins
per Stechemacher & Stearns
Attys

UNITED STATES PATENT OFFICE.

ALBERT H. WATKINS, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN RESERVOIR FOR STREET-LANTERNS.

Specification forming part of Letters Patent No. 165,042, dated June 29, 1875; application filed May 19, 1875.

To all whom it may concern:

Be it known that I, ALBERT H. WATKINS, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improvement in Reservoirs for Vapor-Burners for Street-Lanterns, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a perspective view of a street-lantern having my improved reservoir applied thereto. Fig. 2 is a side elevation of the same.

In the application of vapor-burners to street-lanterns it is frequently found that the post has been thrown out of plumb, or that the lantern-holder is not set squarely thereon, and consequently the horizontal reservoir usually employed to hold the naphtha or other light hydrocarbon-oil is inclined to such a degree that it will not empty itself as its bottom pitches or slants away from the discharge-outlet, and forms a chamber in which the oil stands below the level of the outlet, and after a short-time water or impurities accumulate to such an extent within this chamber as to flow down the feed or outlet pipe and effect or extinguish the light.

My invention has for its object to overcome this difficulty; and consists in a tapering reservoir made larger at the outlet end than at the other, and having its bottom inclined down toward the outlet-pipe, the top of the reservoir being horizontal, or nearly so, by which construction the retention of a portion of the oil within the reservoir, and the consequent accumulation of water or impurities in the event of the lantern being tipped in the wrong direction, is entirely avoided.

To enable others skilled in the art to understand and use my invention, I will proceed to describe the manner in which I have carried it out.

In the said drawings, A represents the lamp-post, to the top of which is secured the basket or holder *a* for the reception of the lantern B. C is the reservoir for containing the

naphtha or other light hydrocarbon-oil, which is introduced through an opening closed by a hinged cap, *b*, the oil being supplied to the burner (not shown) by a feed-pipe, *c*. This reservoir is beveled off at its ends, and extends across one side only of the lantern, and is provided with legs or supports *d e*, the lower bent ends of which are secured, by screws and nuts, to the flange or collar *h* of the lantern-frame.

The reservoir is made tapering, the end *i*, to which the feed-pipe *c* is attached, being of larger area, in cross-section, than the opposite end *k*, the line of the bottom inclining down therefrom to the feed-pipe, which insures the entire contents of the reservoir being drawn off in the event of the lantern being tipped down away from the outlet end of the reservoir, and consequently the liability of water and impurities collecting at the bottom of the reservoir and flowing down the feed-pipe to the burner, as heretofore, is avoided.

The inclination of the bottom of the reservoir necessitates the legs *d e* being of unequal length, that *d* at the smaller end being longer than that *e* at the larger end, the top of the reservoir being horizontal.

In a reservoir of the size adapted for an ordinary street-lantern the difference in the level of its bottom is intended to be about one inch and one quarter, ($1\frac{1}{4}$), which is sufficient for all practical purposes, but the degree of the inclination may be varied, as desired.

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

The tapering reservoir C, having its outlet end of larger area in cross-section than its opposite end, and its bottom inclined down toward the outlet, substantially as and for the purpose described.

Witness my hand this 14th day of May, A. D. 1875.

ALBERT H. WATKINS.

In presence of—

P. E. TESCHEMACHER,
W. J. CAMBRIDGE.