

L. H. OLMSTED.
LAMPS.

No. 195,725.

Patented Oct. 2, 1877.

Fig. 1.

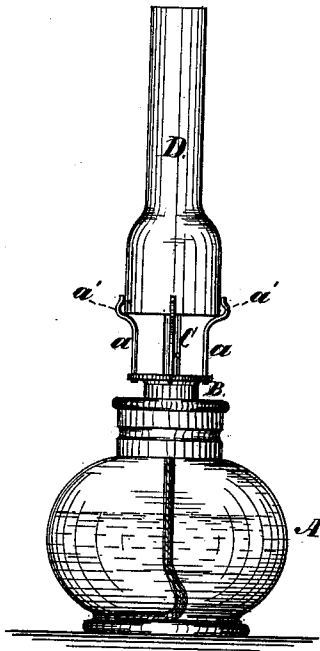
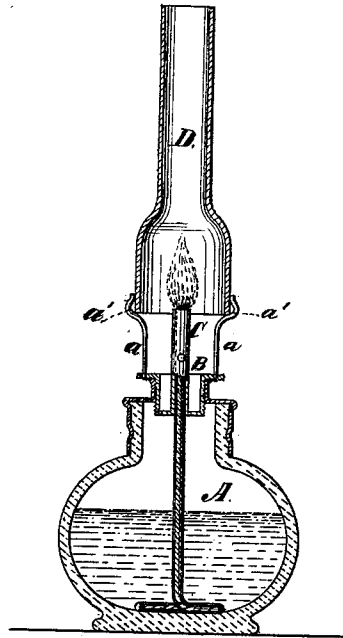


Fig. 2.



Witnesses:

Henry Cichling
H. Wells Jr

Inventor:

Leverett H. Olmsted.
per James A Whitney
Atty.

UNITED STATES PATENT OFFICE.

LEVERETT H. OLMSTED, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN LAMPS.

Specification forming part of Letters Patent No. **195,725**, dated October 2, 1877; application filed April 10, 1877.

To all whom it may concern:

Be it known that I, LEVERETT H. OLMSTED, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Lamps, of which the following is a specification:

This invention comprises a novel combination of an open-bottomed opaque lamp-chimney with the wick-tube of an oil-lamp, the said opaque chimney having its lower end arranged at or near the top of the said wick-tube in such manner as to permit the radiation of light through the bottom of and underneath the chimney, and at the same time induce a regular, equable, and efficient draft through the chimney, this construction of the lamp preventing the usual disagreeable glare of light from the chimney, and at the same time providing for the clear distribution of light from the flame itself in a downward and lateral direction through the open bottom of the chimney.

A is the oil-reservoir of the lamp, which may be of any usual or suitable construction. B is the usual cap at the mouth or opening in the top thereof, either by the usual screw-thread, or by other suitable means, and carrying the wick-tube C, the latter extending up, as represented more fully in Fig. 2, to any requisite distance above the upper surface of the cap B.

D is the lamp-chimney, made of opaque glass, or any other suitable opaque material. This chimney is attached to the lamp with its open lower end at or about the same level as the top of the wick-tube C, being sustained in such position by means of upright supporting-arms *a*, attached to the cap B, or any other suitable portion of the lamp, these arms *a* being constructed with bearing-shoulders *a'*, to receive and retain the lower end of the chimney, as indicated in Figs. 1 and 2, or otherwise constructed for such purpose.

It will be especially observed that the chimney is made of opaque material; that it is constructed and provided to induce a draft therethrough, in order to provide an equable though sufficient supply of air to the flame at the top of the wick-tube C; and that its open lower end is arranged substantially at the same level as the top or upper extremity of the wick-tube C.

It is true that the said lower end of the

chimney D may be placed more or less below or above the just-mentioned level at the top of the wick-tube without affecting the principle of my invention; but the construction being substantially as just hereinbefore explained, it is manifest that the chimney, being opaque, prevents that glare of light from the flame itself experienced with a transparent chimney, and which, especially in night-lamps, or in lamps used in the sick-room, renders the lamp objectionable, and a source of very great inconvenience and annoyance.

It will also be observed that the said opaque chimney having its lower end arranged in relation with the top of the wick-tube, as just set forth, permits the light from the flame at the top of said wick-tube to pass downward and laterally outward through and from the open lower end of said opaque chimney, thereby affording a clear and pleasant light projected laterally and somewhat downward from the flame, the herein-described position of the chimney, moreover, enabling the same to exert sufficient draft to insure that full and equable supply of air to the flame requisite to perfect combustion, and the avoidance of bad odors, smoke, &c.

I do not claim, broadly, a draft-chimney having its lower end substantially on a level with the top of the wick-tube, as such is shown and illustrated in my Letters Patent No. 188,533, issued to me on the 20th day of March, 1877. Neither do I claim a combined lamp shade and chimney having its upper part opaque, and its lower part of transparent glass, inasmuch as the same differs radically and essentially from my herein-described invention, the latter relating solely to a draft-producing chimney made opaque throughout, and open at the bottom to permit the radiation of light direct from the flame without the intervention of any material whatever; but

What I do claim as my invention is—

The herein-described combination of an opaque open-bottomed draft-chimney with the wick-tube of a lamp, the chimney being arranged with reference to said wick-tube, substantially as and for the purpose herein set forth.

L. H. OLMSTED.

Witnesses:

EDWARD HOLLY,
H. WELLS, Jr.