

# I. L. Sagendorph. Lamp.

N<sup>o</sup> 75467

Patented Mar. 10, 1868.

Fig. 1.

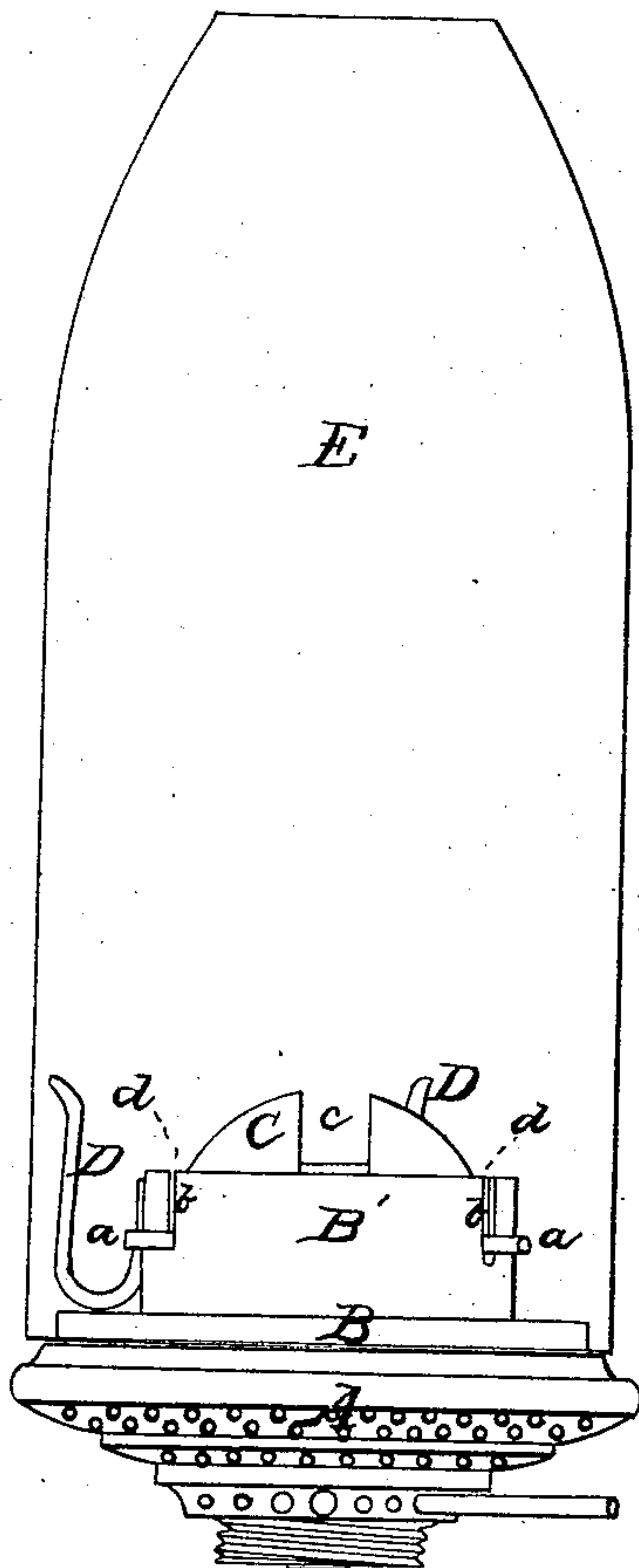


Fig. 2.

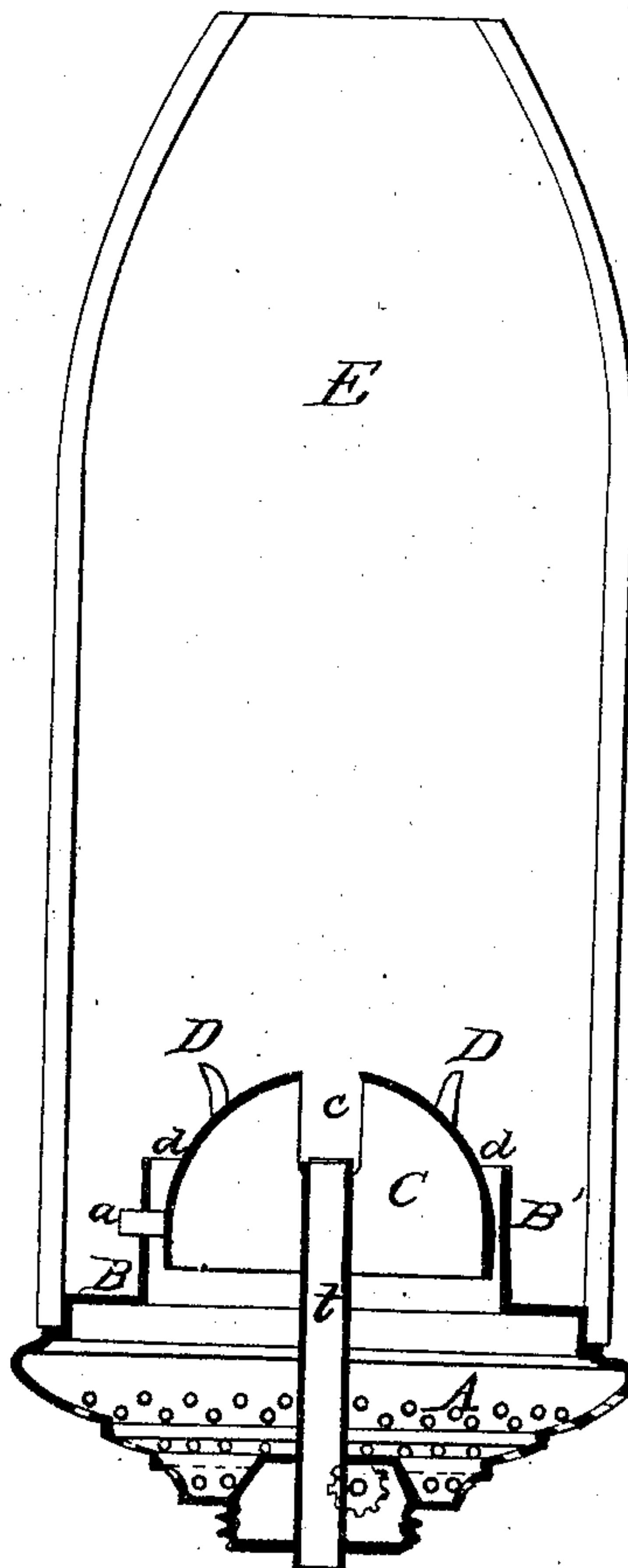
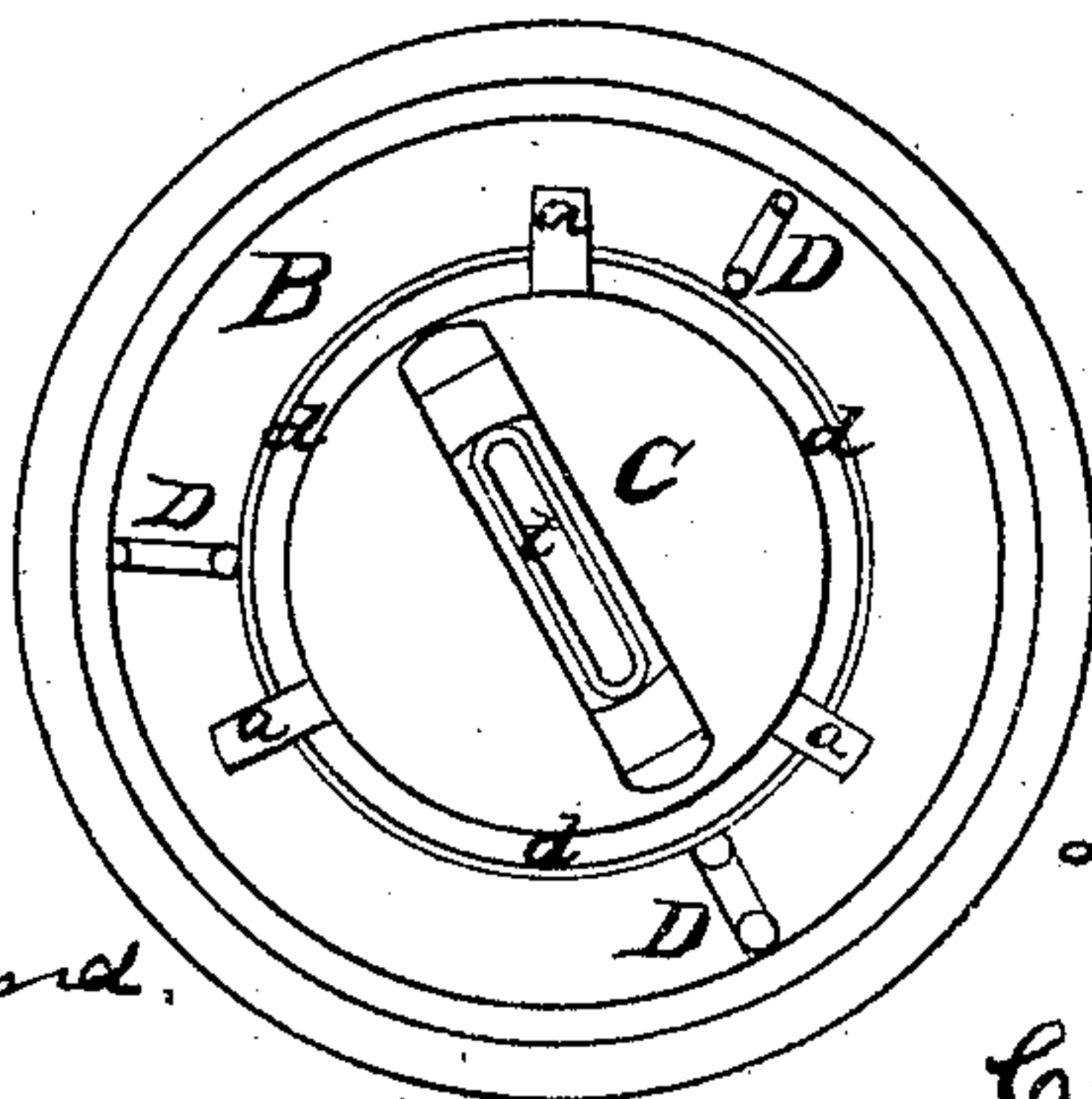


Fig. 3.



Witnesses.

William C. Cleveland.  
Charles P. Corey.

Inventor.

Lewis L. Sagendorph.  
By his Attorney  
Chas. F. Stanbury.

# United States Patent Office.

LEWIS L. SAGENDORPH, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND SAMUEL C. MOORE, OF SAME PLACE.

*Letters Patent No. 75,467, dated March 10, 1868.*

## 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, LEWIS L. SAGENDORPH, of the city of Boston, in the State of Massachusetts, have invented a new and useful Improvement in Burners for Kerosene-Lamps; and I do hereby declare the following to be a full and correct description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of my improved burner with chimney attached.

Figure 2 is a vertical central section of the same, and

Figure 3 a plan or top view.

The same letter marks the same part wherever it occurs.

The nature of this invention consists in the peculiar mode of supporting the blaze-cap, and its arrangement in relation to a solid base-plate of peculiar construction, so that the air admitted to the flame must pass through an annular opening immediately around the blaze-cap, the effect being to secure a more perfect combustion, together with great steadiness of flame.

In the accompanying drawing, A marks the perforated cup, B the solid base-plate, which has no perforations, but rises around the blaze-cap in an upright rim, B'. C is the blaze-cap, which is a plain hemisphere, having the usual opening, c, for the flame. Three pins, a a a, project from its sides, and are received by three slits, b, cut in the upper edge of the rim B'. In this way the cap is securely held while in place, and is readily removable at pleasure. Between the cap C and the rim B' is an annular space, d, through which all the air admitted to the flame must pass, except that which passes through the slot c. The wick-tube t is of the usual construction. The chimney E is of the form represented, and rests upon the outer edge of the base-plate B. It is supported within by the braces D, attached, in any suitable manner, to the base-plate.

By this construction, the air is supplied in an unbroken stream to the flame, at the best position for securing perfect combustion, while the light is rendered very steady by reason of the absence of those disturbing currents which exist in the chimney, when the base-plate is perforated throughout its whole extent, and which cause the objectionable movement of the blaze called flickering. The readiness with which the cap can be removed gives easy access to the top of the wick-tube for the purpose of trimming the wick.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

The blaze-cap C, so arranged with reference to the imperforate base-plate B, as to direct the air to the flame through an annular passage or opening around the blaze-cap, in the manner and for the purpose specified.

I also claim supporting the blaze-cap by pins resting in slits in the upright flange B' of the base-plate, in the manner described.

The above specification of my said invention signed and witnessed at Boston, this 13th day of December, A. D. 1867.

LEWIS L. SAGENDORPH

Witnesses:

CHAS. F. STANSBURY,

SAMUEL C. MOORE.