

S. W. WARREN.  
Lamp Chimney.

No. 102,892.

Patented May 10, 1870.

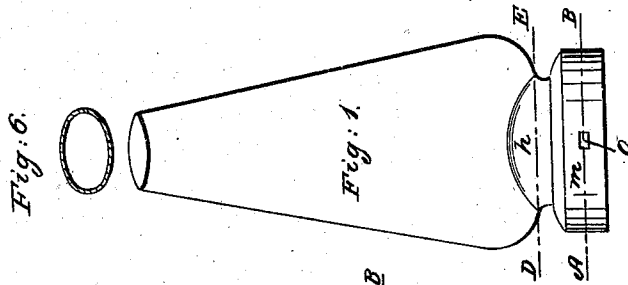


Fig. 6.



Fig. 4.

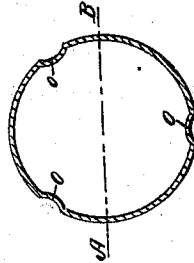


Fig. 2.

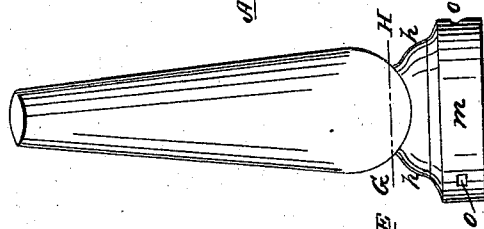


Fig. 5.

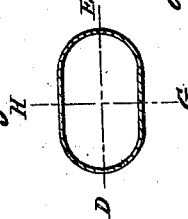
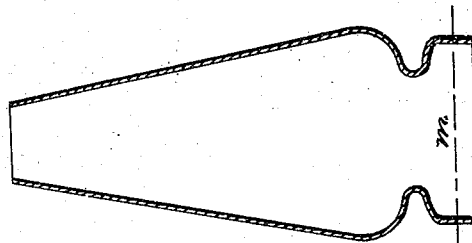


Fig. 3.



Witnesses:

Wm. J. Peyton  
D. P. Howl

Inventor:

S. W. Warren,  
by John A. Giedersheim atty.

# United States Patent Office.

SYLVESTER W. WARREN, OF BOSTON, MASSACHUSETTS, ASSIGNOR TO HIMSELF AND GEORGE B. PARROTT.

Letters Patent No. 102,892, dated May 10, 1870.

## IMPROVEMENT IN LAMP-CHIMNEYS.

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, SYLVESTER W. WARREN, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Lamp-Chimneys; and I do hereby declare the following to be a full and correct description of my invention, sufficient to enable others skilled in the manufacture to construct the same, reference being had to the accompanying drawings which make part of this specification, and in which—

Figure 1 is a front elevation of my improved lamp-chimney;

Figure 2 is an end elevation, and

Figure 3, a longitudinal vertical section of the same.

Figures 4 and 5 are sections in lines A B, D E, and G H, figs. 1 and 2.

Figure 6 is a view showing the elliptical shape of the top of the chimney.

Like letters of reference indicate like parts in the several figures.

The nature of my invention consists in the peculiar shape of the neck of the chimney, in relation to the lower rim and upper portion of the same, so as to bring more air to the center of the flame.

In the drawings—

*m* represents the lower circular rim of the chimney, being that part which passes down over the cone, to

which it is held by means of spring catches on the rim of the cone, which enter into notches or niches *o* in the rim *m*.

From this rim *m* a conical neck, *h*, having two flattened sides, rises, converging at its upper part, as shown clearly in fig. 2, where the upper part of the chimney commences. This part is of elliptical shape, contracting in continuous graduation toward its top, its lower ends being wider than the neck *h*, and having curved or round corners.

It will be easily understood that the more air passes through the center of the cone-shaped neck *h*, the more it will spread the flame in the chimney, and to obtain this spreading I give the neck and chimney its peculiar shape.

Having thus described my invention,

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

The combination, with the circular rim *m* and the upper elliptical portion of a lamp-chimney, of the cone-shaped neck *h*, with flattened sides, when constructed as shown, and for the purposes herein described.

SYLVESTER W. WARREN.

Witnesses:

LEWIS T. WHITNEY,  
GEORGE G. DESMAZIS.