

No. 765,755.

PATENTED JULY 26, 1904.

T. SMITH.  
LAMP SHADE AND REFLECTOR.  
APPLICATION FILED SEPT. 21, 1903.

NO MODEL.

Fig. 1

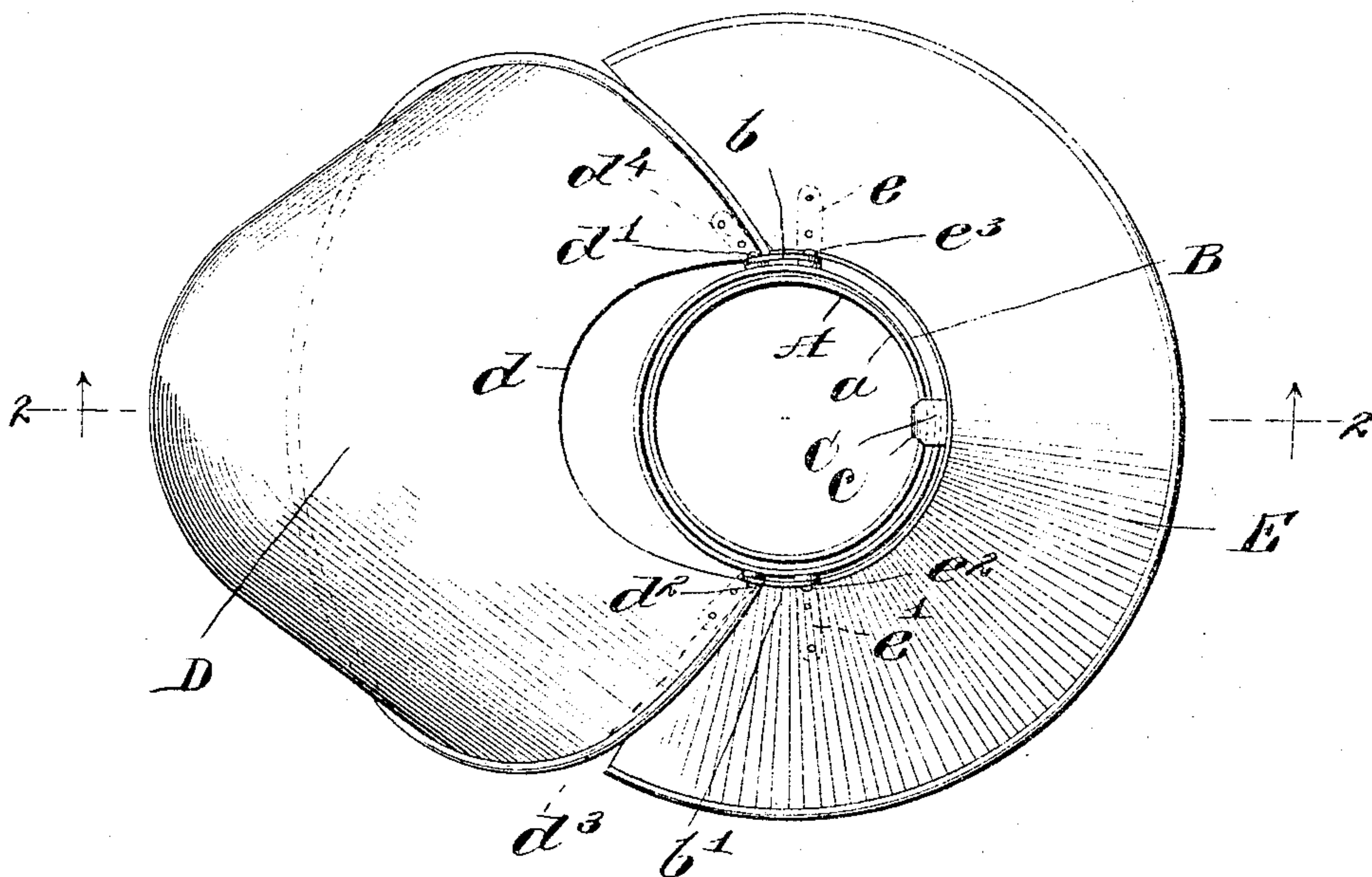
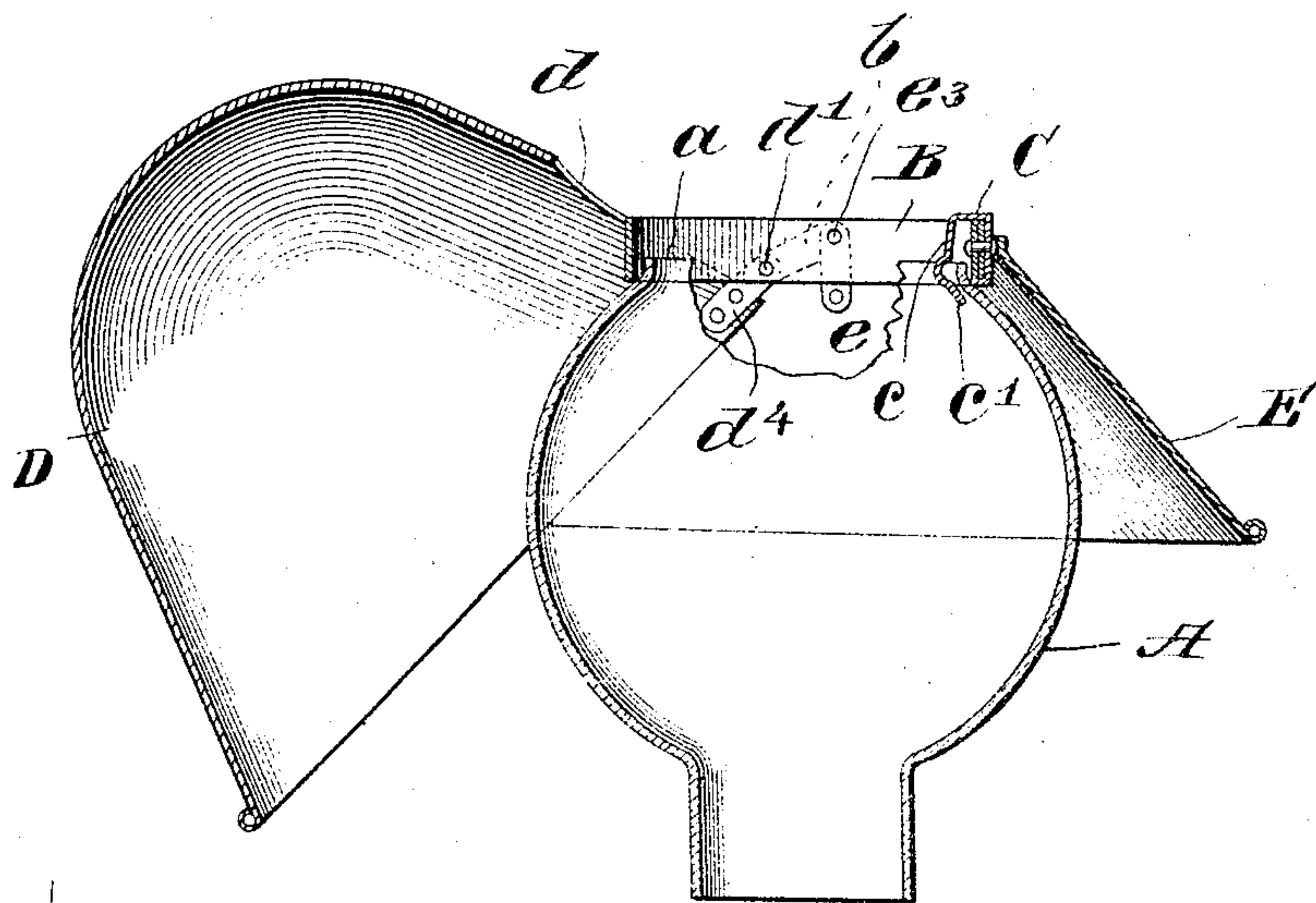


Fig. 2



WITNESSES

*D. A. Pauberschmidt*

Mattie B. Bliss.

INVENTOR

*Theodore Smith*

By *A. J. Bitner*

ATTY.



# UNITED STATES PATENT OFFICE.

THEODORE SMITH, OF CHICAGO, ILLINOIS.

## LAMP SHADE AND REFLECTOR.

SPECIFICATION forming part of Letters Patent No. 765,755, dated July 26, 1904.

Application filed September 21, 1903. Serial No. 173,930. (No model.)

*To all whom it may concern:*

Be it known that I, THEODORE SMITH, a citizen of the United States of America, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Lamp Shades and Reflectors, of which the following is a specification.

My invention relates to certain improvements in lamp shades and reflectors designed to combine with a reflector adjustable to throw the light to the desired point a shade also adjustable to protect the eyes from the glare of the light and at the same time offer the least possible obstruction to the distribution of the light as desired.

To such ends the invention consists in certain novel features which will appear from the following description and claims.

The invention is illustrated in the drawings by two views, of which—

Figure 1 is a plan view of my improved shade and reflector as it appears upon the top of a common form of spherical lamp-chimney, and Fig. 2 is a vertical diametrical section in line 2 2 of Fig. 1.

Referring to the figures, the lamp-chimney is represented at A, and a supporting ring or band B is provided to rest upon the top of the chimney just outside of the slight vertical rim or flange *a* at the top of the latter. Inasmuch as in chimneys of this sort this flange is hardly of sufficient extent to hold the band against horizontal movement and prevent it from displacement in that way, an inwardly-projecting tongue C is provided, which curves downward at *c* and then beneath the upper edge of the chimney at *c'*, thus forming a sort of hook which, together with the band B, embraces the upper rim of the chimney and greatly increases the resistance to lateral movement thereon. It is also preferable that the lower end *c'* of the tongue C be so arranged with reference to the band that the chimney cannot be forced directly into the hook without springing the latter.

The shade and reflector I prefer to form with two portions or parts D E, the part D being in the form of a parabolic reflector cut away adjacent to its rim, as at *d*, so as to be slipped upon the ring or band B and pivoted

thereto upon a horizontal axis by means of pivots *d'* *d''*. The pivots *d'* *d''* are preferably screws, and the reflector is shown as having two ears *d'''* *d''''*, through which the screws pass. Plates *b* *b'* outside of these ears and also clamped thereto by means of the screws provide additional frictional resistance to the oscillation of the reflector upon the screws, so that by tightening the latter to the desired degree the reflector may be made to remain firmly in any adjustment upon its pivots to which it is moved. The shade E is in the ordinary conical form, except that it lacks a sufficient portion upon the side of the reflector to permit the free oscillation of the latter upon its pivot. This shade is preferably pivoted to the band by means of ears *e* *e'* and screws *e''* *e'''*, the plates *b* *b'* intervening also between the heads of these screws and the ears of the shade, so as to give said shade the same ease of adjustment upon its pivots, together with the same stability in any of its positions, as the reflector.

It will be readily seen from the drawings and the above description that the reflector can be adjusted upon its pivot to throw the light to one side and upon any desired point; also, that the shade can be raised or lowered to a point where it barely protects the eye of the observer, so as to avoid any unnecessary interference with the throwing of the light as desired.

The construction can of course be varied widely without departing from the essential features of novelty, and I therefore do not limit myself to the specific form shown and described herein.

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

1. The combination with a suitable supporting device, of a suitable reflector pivoted thereto, and a shade independently pivoted to said supporting device, the shade being notched to receive the reflector.

2. The combination with a suitable supporting device, of a shade and reflector independently pivoted thereto, one of said members being notched to receive the other, and the two forming a practically continuous circuit around the space occupied by the lamp.

3. The combination with a supporting-band

adapted to be carried upon a chimney, of a reflector pivoted thereto upon a horizontal axis and having a notch upon one side to accommodate the band and the chimney, and a shade  
5 also pivoted to said band upon a horizontal axis and extending around the chimney with the exception of the portion occupied by the reflector.

4. The combination with a band having a  
10 device for removably securing it to the top of a chimney, of a reflector pivoted horizontally upon said band and a conical shade, also pivoted horizontally upon said band and extending around the same with the exception of the  
15 portion occupied by the reflector.

5. The combination with a supporting-band,

of a hook adapted to embrace the top of a chimney, a reflector notched adjacent to its margin and pivoted to the band upon the opposite sides of the notch and a shade of con- 20 ical shape, incomplete upon one side to accommodate the reflector and pivoted to the band adjacent to the pivotal line of said reflector.

In witness whereof I have signed the above 25 application for Letters Patent, at Chicago, in the county of Cook and State of Illinois, this 24th day of July, A. D. 1903.

THEODORE SMITH.

Witnesses:

CHAS. O. SHERVEY,  
MATTIE B. BLISS.