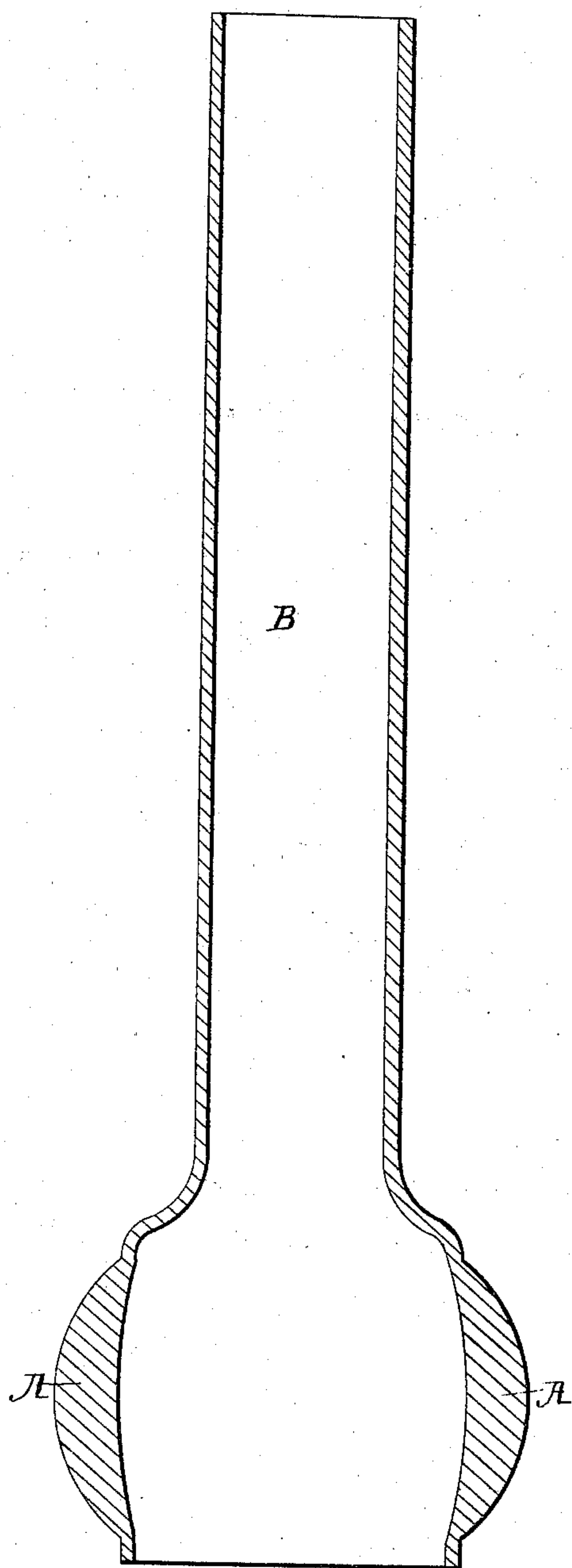


S. CONSTANT.  
Lamp Chimney.

No. 11,060.

Patented June 13, 1854.



# UNITED STATES PATENT OFFICE.

SILAS CONSTANT, OF BROOKLYN, NEW YORK.

## LENS LAMP-CHIMNEY.

Specification forming part of Letters Patent No. **11,060**, dated June 13, 1854.

*To all whom it may concern:*

Be it known that I, SILAS CONSTANT, of Brooklyn, in the county of Kings and State of New York, have invented a new Lens Lamp-Chimney; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, representing a vertical section through the center of the chimney, and making part of this specification.

The nature of my invention consists in constructing that part of a lamp-chimney which surrounds the flame in the form of an annular lens for the purpose of so diverting the rays of light from their natural course as to concentrate and project them in any desired direction, substantially as hereinafter set forth.

My invention is applicable to all forms of lamp-chimneys, and does not vary their construction, except in the part A, surrounding the flame of the lamp or gas-burner, which portion is formed into an annular lens. The lens may have a concavo-convex section, as

shown in the drawing, or a plano-convex or doubly-convex section, as may be most convenient or best accomplish the desired purpose, and of any degree of convexity to attain the particular object in each case; but no general rule for constructing the lenses can be given. The chimney is placed around the flame in the usual manner. By means of this arrangement all the light passing through the lens may be refracted, so as to appropriate it for illuminating any given space, and thereby greatly increase the light where desired, which would otherwise be uselessly dispersed.

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

Constructing a lamp-chimney with the bulge so thickened as to form an annular lens for refracting the rays of light, as herein described.

SILAS CONSTANT.

Witnesses:

Z. C. ROBBINS,  
J. S. BROWN.