

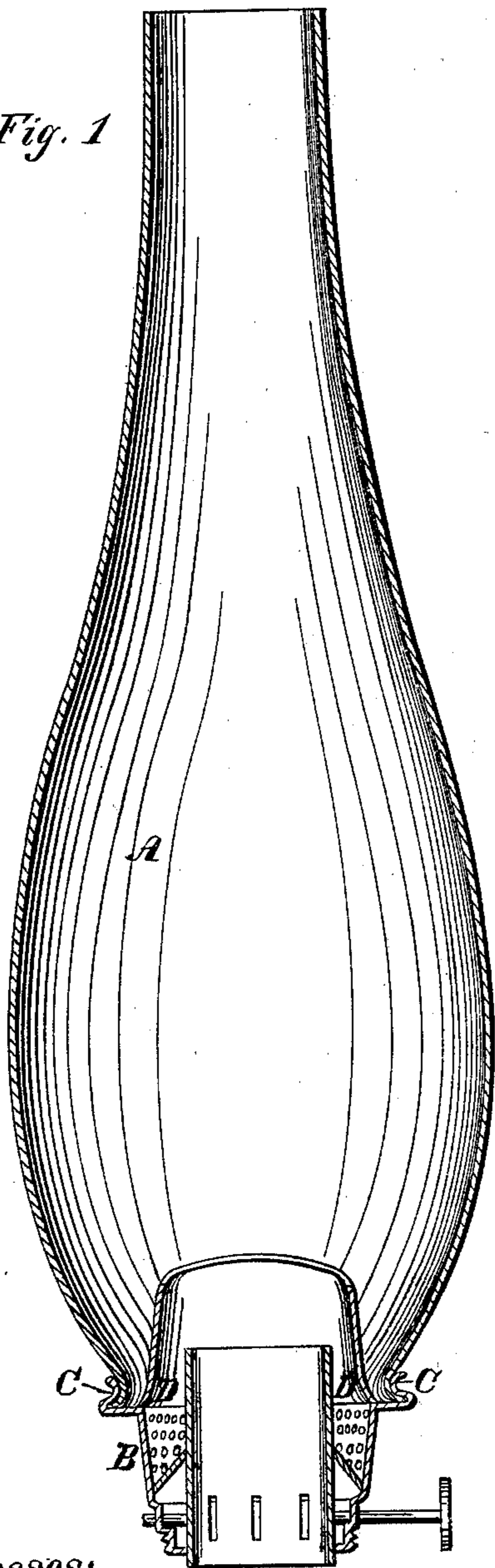
GRACIE & BOYD.

Lamp Chimney.

No. 80,282.

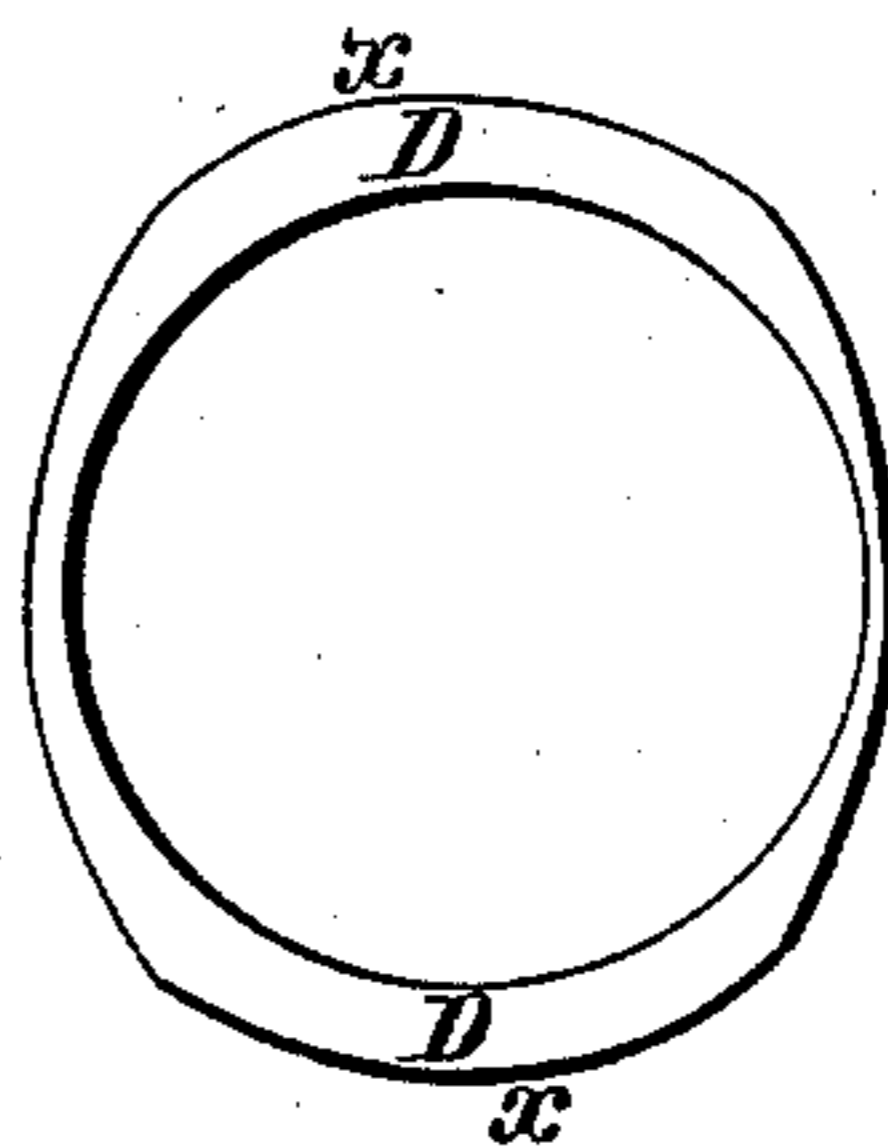
Patented July 28, 1868.

*Fig. 1*

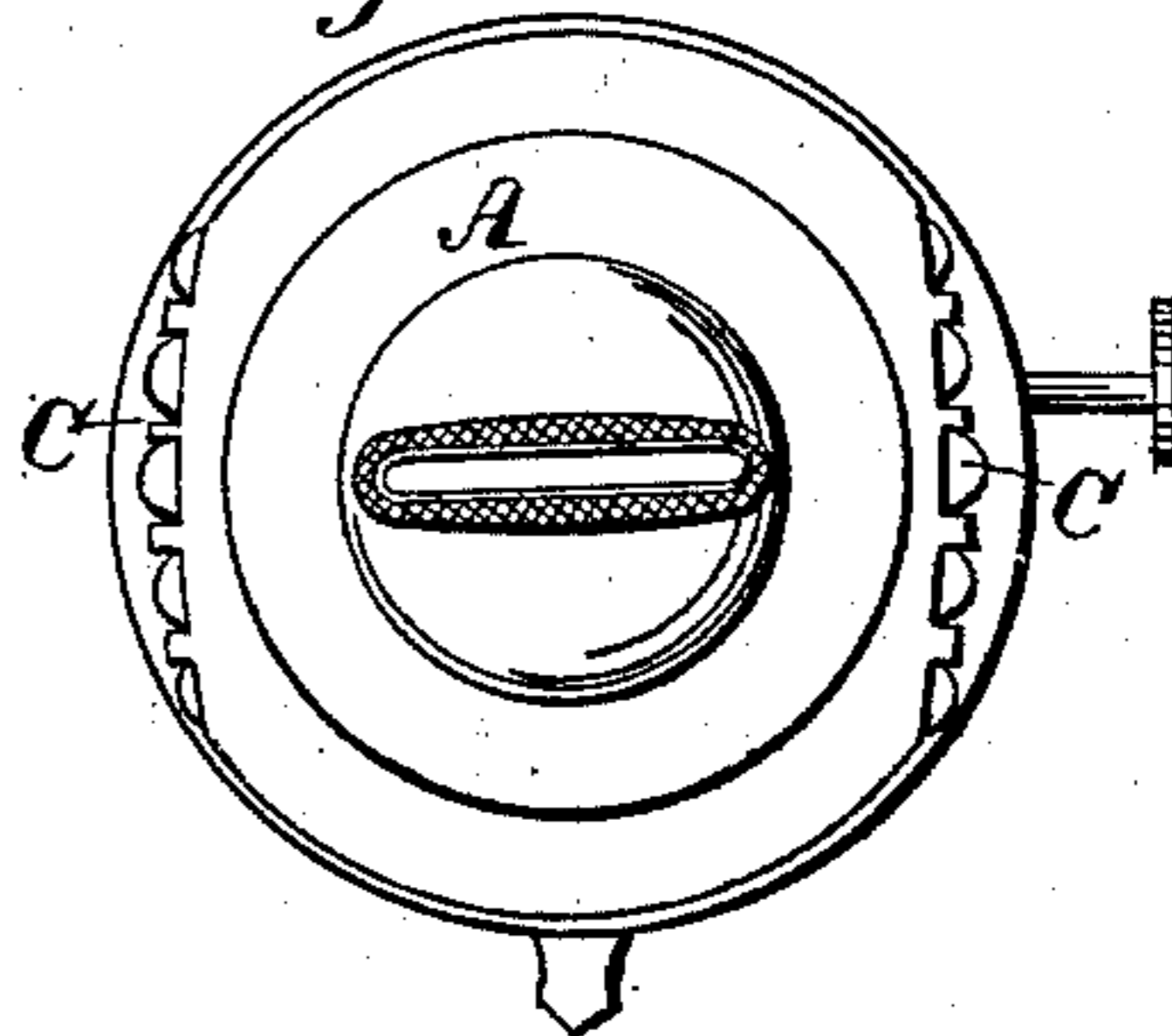


*Witnesses:*  
*A. C. Johnston*  
*James Thompson*

*Fig. 3*



*Fig. 2*



*Inventors:*

*John Grace & Robert Boyd*  
*By their attorney*  
*James J. Johnston*

# United States Patent Office.

JOHN GRACIE, OF PITTSBURG, AND ROBERT H. BOYD, OF HULTON STATION,  
PENNSYLVANIA.

*Letters Patent No. 80,282, dated July 28, 1868.*

## 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 we, JOHN GRACIE, of Pittsburg, and ROBERT H. BOYD, of Hulton Station, in the county of Allegheny, and State of Pennsylvania, have invented a new and useful Improvement in Lamp-Tops; and we do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of our invention consists in providing a lamp-chimney with an elliptical flange, and, in combination with such flange, a lamp-top provided with a flange, portions of which project inward, for the purpose of catching, grasping, and holding the chimney in position; the contour of said flange corresponding to the form of the flange of the lamp-chimney.

To enable others skilled in the art to make and use our invention, we will proceed to describe its construction and operation.

In the accompanying drawings, which form part of this specification—

Figure 1 is a vertical section of the lamp-chimney and top provided with our improvement.

Figure 2 is a top view of a lamp-top provided with our improvement in the flange for catching and holding the chimney in position.

Figure 3 is a bottom view of the elliptical flange of the lamp-chimney.

We construct our lamp-chimney and lamp-top in any of the known forms, with the exception of the flange on the bottom of the chimney, and the flange of the lamp-top.

The flange, D, of the lamp-chimney A is made elliptical, as shown in fig. 1, which form of flange may be made in moulds, or by the ordinary hand manipulations of the workman. The flange of the lamp-top B is provided with two inward-projecting portions marked C, which are so arranged with relation to each other, and to the flange D of the lamp-chimney A, that they will catch over the flange and bind the chimney firmly to its seat on the lamp-top.

The inward projections C of the lamp-top B are so arranged as to form a wedge-shaped or tapering recess for the reception of the wide portion X of the flange D of the chimney A, so that, when the chimney is placed on the lamp-top B, and turned about one-fourth way round, the projection C will bind on the wide portions X of the flange D. By thus constructing the flange of the chimney, and adapting the flange of the lamp-top to it in the manner described, and as represented in the accompanying drawings, the chimney will be held firmly to its place, without liability of becoming displaced by any ordinary handling of the lamp. The projecting portions C of the lamp-top should be made so that they will yield to any undue expansion of the chimney or lamp-top.

The advantages of our improvement in chimney and lamp-top consist in their adaptation to any of the known forms of lamp-chimneys, also in the speed, ease, and facility of securing the chimney on and to the lamp-top in a safe and secure manner.

We wish it clearly understood that we do not claim broadly a lamp-chimney with an elliptical or oval base provided with a flange; neither do we claim broadly a lamp-top adapted to a chimney having an oval or elliptical-formed base, for such devices are known and patented.

Having thus described the nature, construction, and operation of our improvement, what we claim as of our invention, is—

1. Providing a lamp-chimney with an elliptical flange, substantially as herein described.
2. In combination with the above, a lamp-top provided with a flange, portions of which project inward for the purpose of catching, grasping, and holding the chimney in position, the contour of said flange corresponding to the form of the flange of the lamp-chimney, substantially as herein described, and for the purpose set forth.

JOHN GRACIE,  
ROBERT H. BOYD.

Witnesses:

A. C. JOHNSTON,  
JAMES J. JOHNSTON.