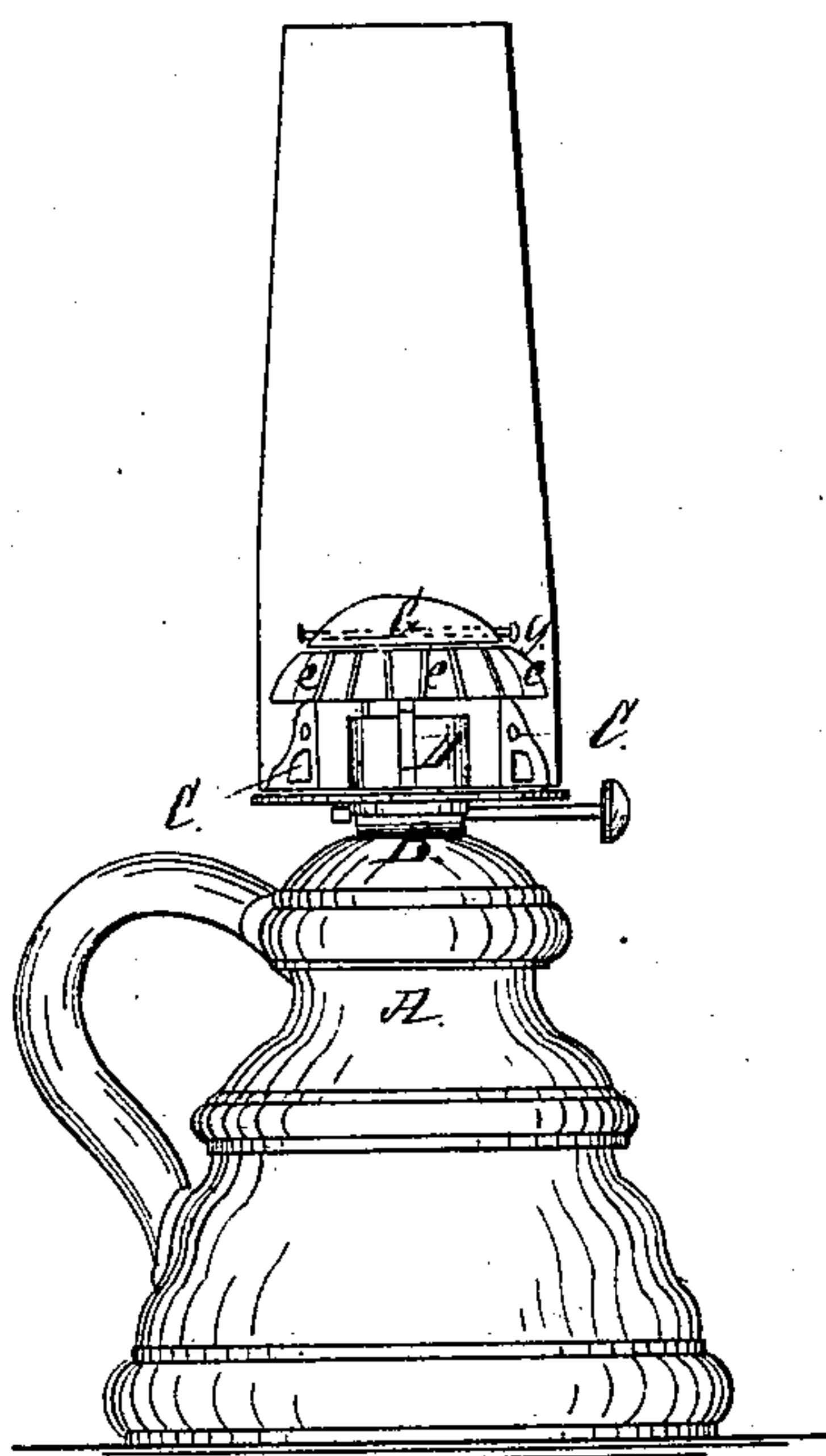
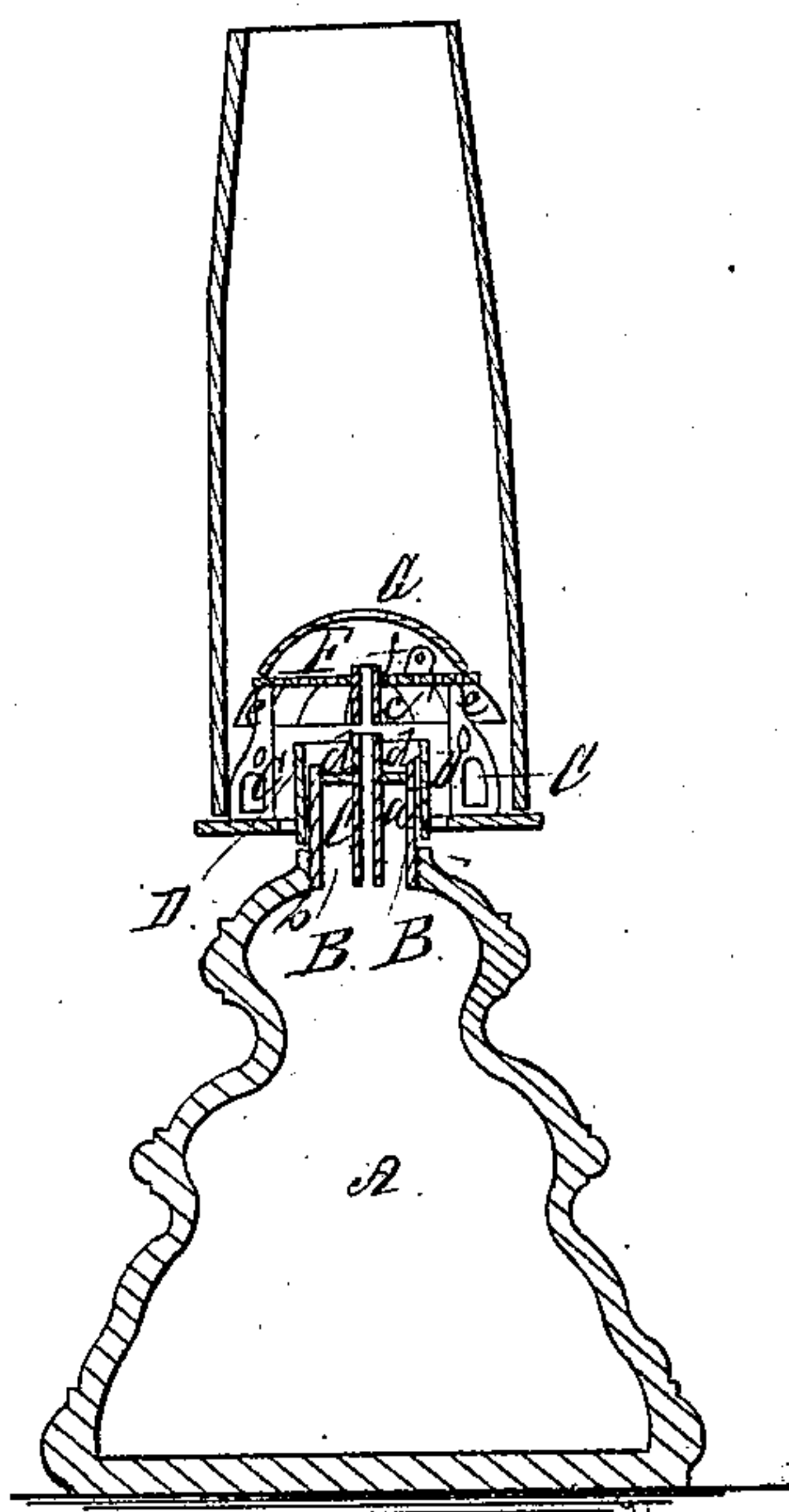


*P. Baker,*  
*Lamp Burner.*  
*N<sup>o</sup> 81,128.      Patented Aug. 18, 1868.*

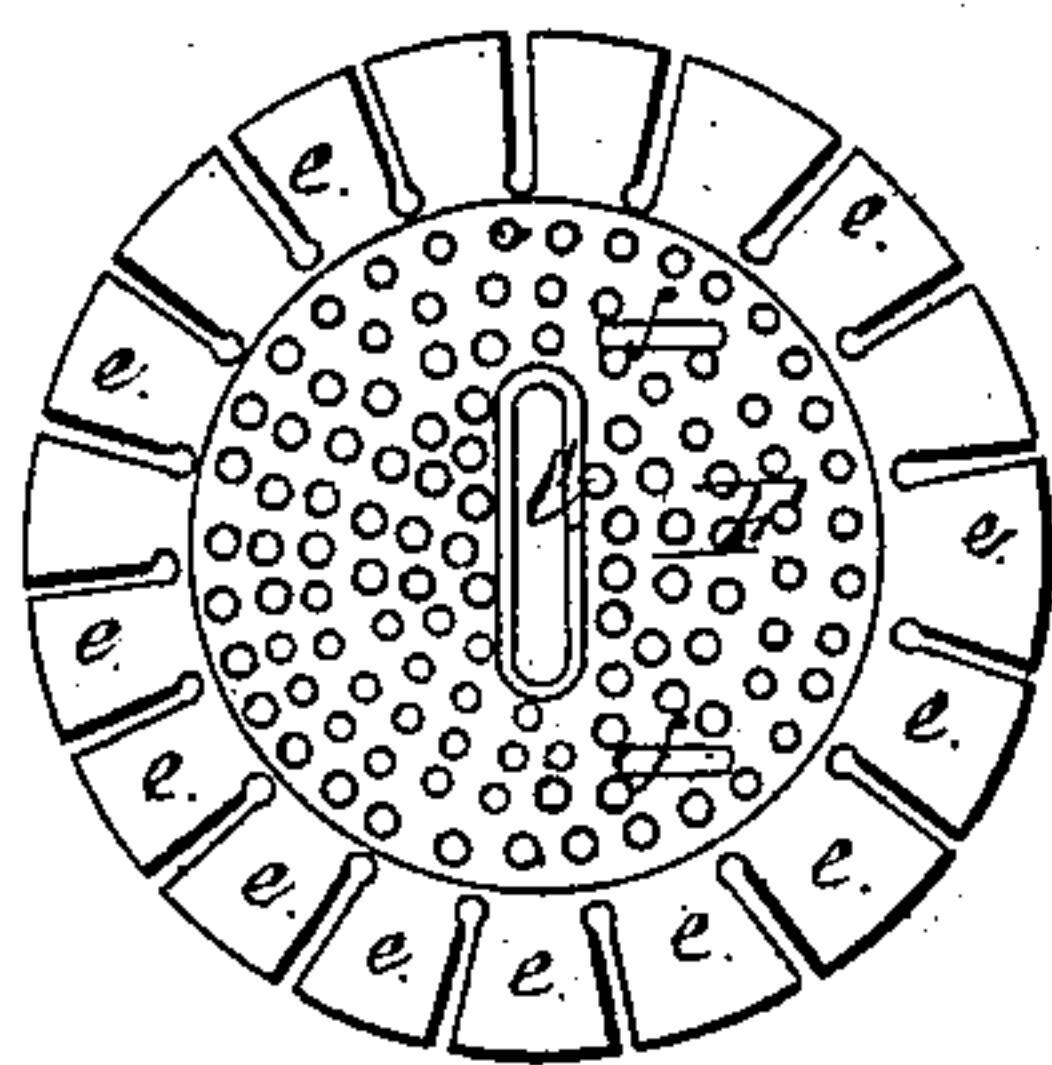
*Fig: 1.*



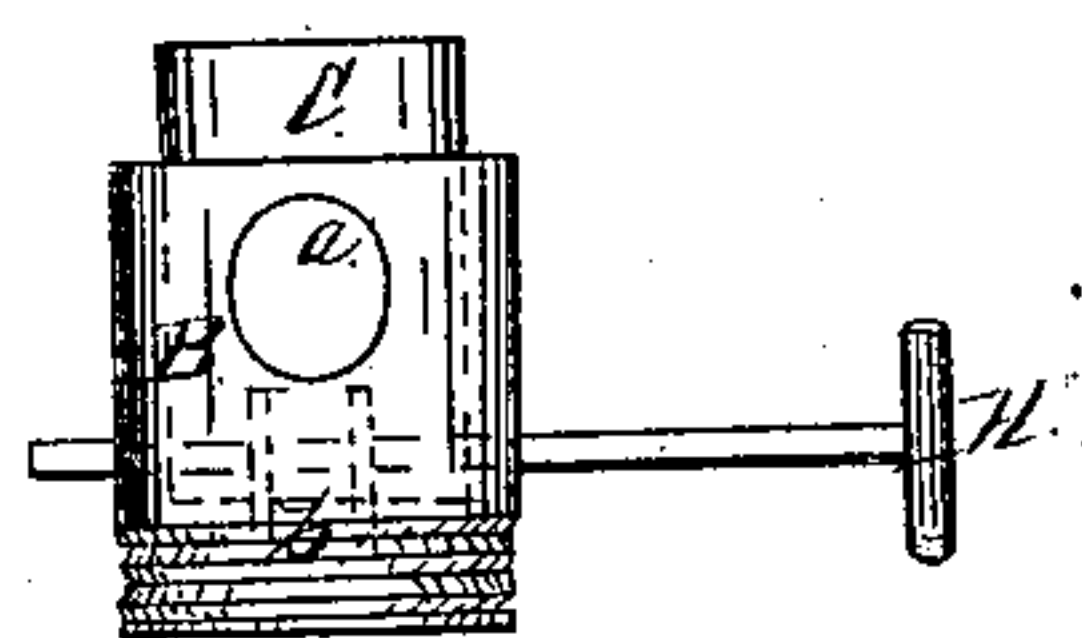
*Fig: 2.*



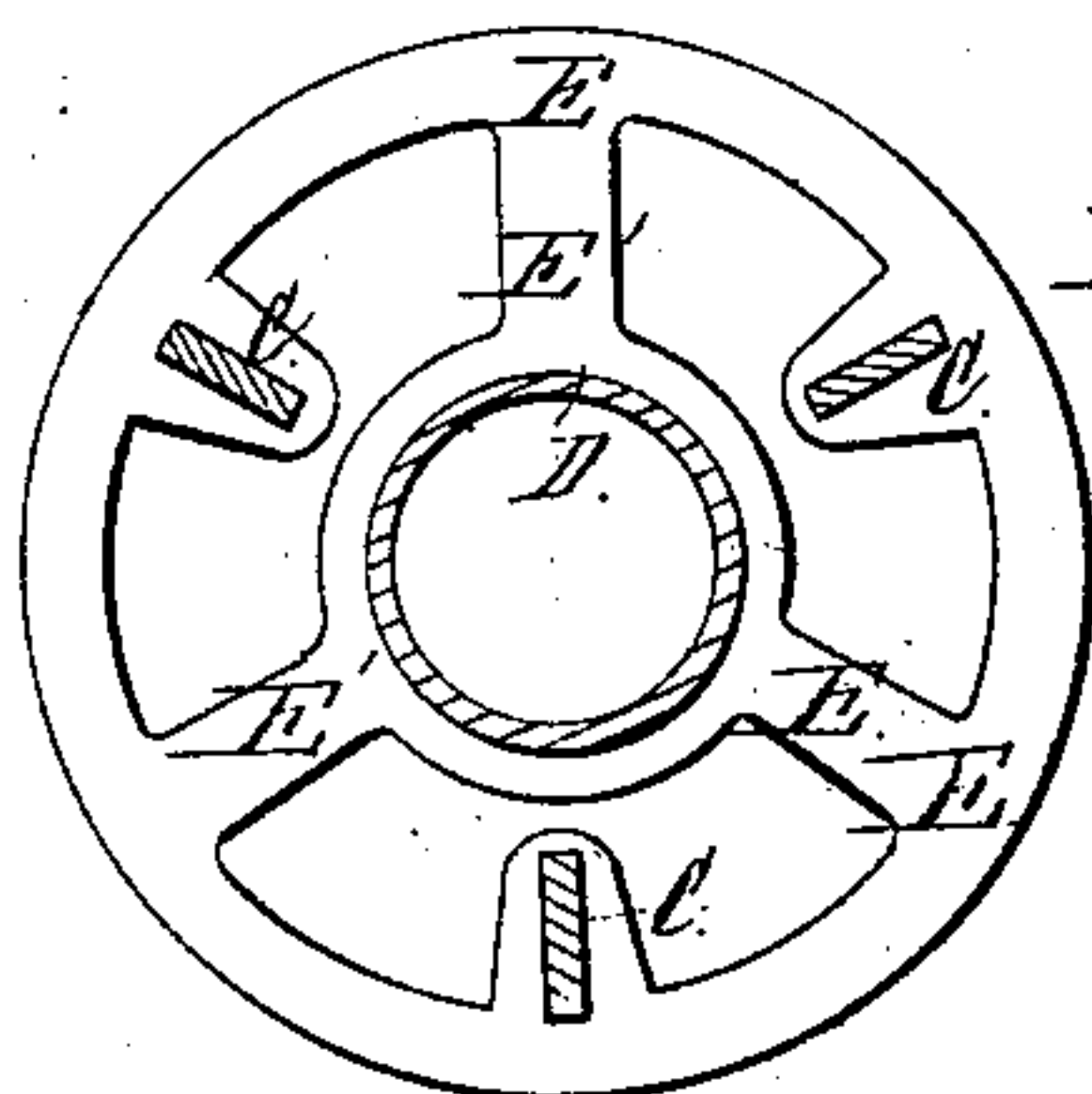
*Fig: 3.*



*Fig: 5.*



*Fig: 4.*



*Witnesses:*  
*W. E. Mans*  
*E. M. Manley*

*Inventor:*  
*Philander Baker*

# UNITED STATES PATENT OFFICE.

PHILANDER BAKER, OF CHICAGO, ILLINOIS.

## IMPROVEMENT IN LAMP-BURNERS.

Specification forming part of Letters Patent No. **81,128**, dated August 18, 1868; antedated August 5, 1868.

*To all whom it may concern:*

Be it known that I, PHILANDER BAKER, of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Lamps; and I do hereby declare and make known that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, and the letters and figures marked thereon, which form part of this specification.

My said invention consists in attaching the burner of a lamp to the wick-tube, or the screw-cap closing the orifice of the oil-cup, in such a manner as to be readily removed, so that the lamp may be filled, when desired, without the trouble of unscrewing the cap closing the lamp, or removing the same in any manner, while, upon replacing the burner, the lamp or oil-cup is effectually and hermetically closed, as desired.

To enable those skilled in the art to understand how to construct and use my said invention, I will now proceed to describe the same with particularity, making reference in so doing to the aforesaid drawings, in which—

Figure 1 represents a side view of my invention; Fig. 2, a central vertical section of the same. Fig. 3 is a plan view of the same, the chimney and cone being removed. Fig. 4 is a top view of the annular ring or plate upon which the lower end of the chimney rests, and Fig. 5 is a detached side view of the tube through which the oil-cup of the lamp is filled.

Similar letters of reference in the several figures denote the same parts of my invention.

A represents the body of the lamp, and B is a short tube, provided with screw-threads upon its lower end to screw into the lamp, as shown. Within this tube B, whose upper end is closed by a partition, *d*, is arranged the wick-tube, or section of wick-tube C, being supported in the partition *d*, as indicated in the drawings.

D represents a short tube fitting or sliding over the tube B, so as to be removed when desired, to which is attached the annular chimney-rest E by means of arms E'. Upon said chimney-rest are arranged three (two or more may be used) standards, *c*, upon whose upper ends is secured a perforated plate, F, at the center of which is placed the upper section of the wick-tube C', as shown. Upon the perimeter of the said perforated plate F is arranged an elastic flaring flange, *e*, slotted,

as shown, over which the end of the chimney is pressed until it rests upon said support E, before mentioned, the said flange *e* thus serving, by its expansibility, to hold the chimney securely in place.

A cone, G, is secured upon or over the wick-tube by a rod, *g*, passing through the same, and the lugs *f* upon said plate F, or in any other suitable manner.

It may be observed that the particular mode of connecting or supporting the upper section of the wick-tube upon the plate upon which the chimney rests, or which is connected with the tube D, which is herein shown, is not essential, as any other open connection to avoid the transmission of the heat downward to the oil may be used.

In one side of the tube B, which is secured in the lamp near its upper end, an opening, *a*, is made, through which the oil may be poured into the lamp by an ordinary lamp-filler, as desired, upon removing the burner and the outer tube D attached to the burner, and which covers and closes the aperture *a* when the parts are arranged for use.

The chimney may be removed by simply raising it up, as the elastic holder yields automatically.

To prevent the effort to remove the chimney from detaching the burner and tube D from the tube B, any suitable adjustable device may be used for detaining the tube D upon the tube B until said device should be so manipulated as to release it.

Having described the construction and operation of my invention, I will now specify what I claim and desire to secure by Letters Patent.

I claim—

1. The combination of the tubes B D and the sectional or divided wick-tube C C', arranged and operating as and for the purposes described.

2. The combination of the tubes B D, plate E, standards *c* or their equivalent, and the perforated plate F, substantially as specified and shown.

3. The combination of the tubes B D, divided wick-tube C C', plate E, standards *c*, and perforated plate F, arranged and operating substantially in the manner and for the purposes set forth.

PHILANDER BAKER.

Witnesses:

W. E. MARRS,  
L. L. COBURN,