

(No Model.)

A. GEISS.

LAMP.

No. 329,897.

Patented Nov. 10, 1885.

Fig. 1.

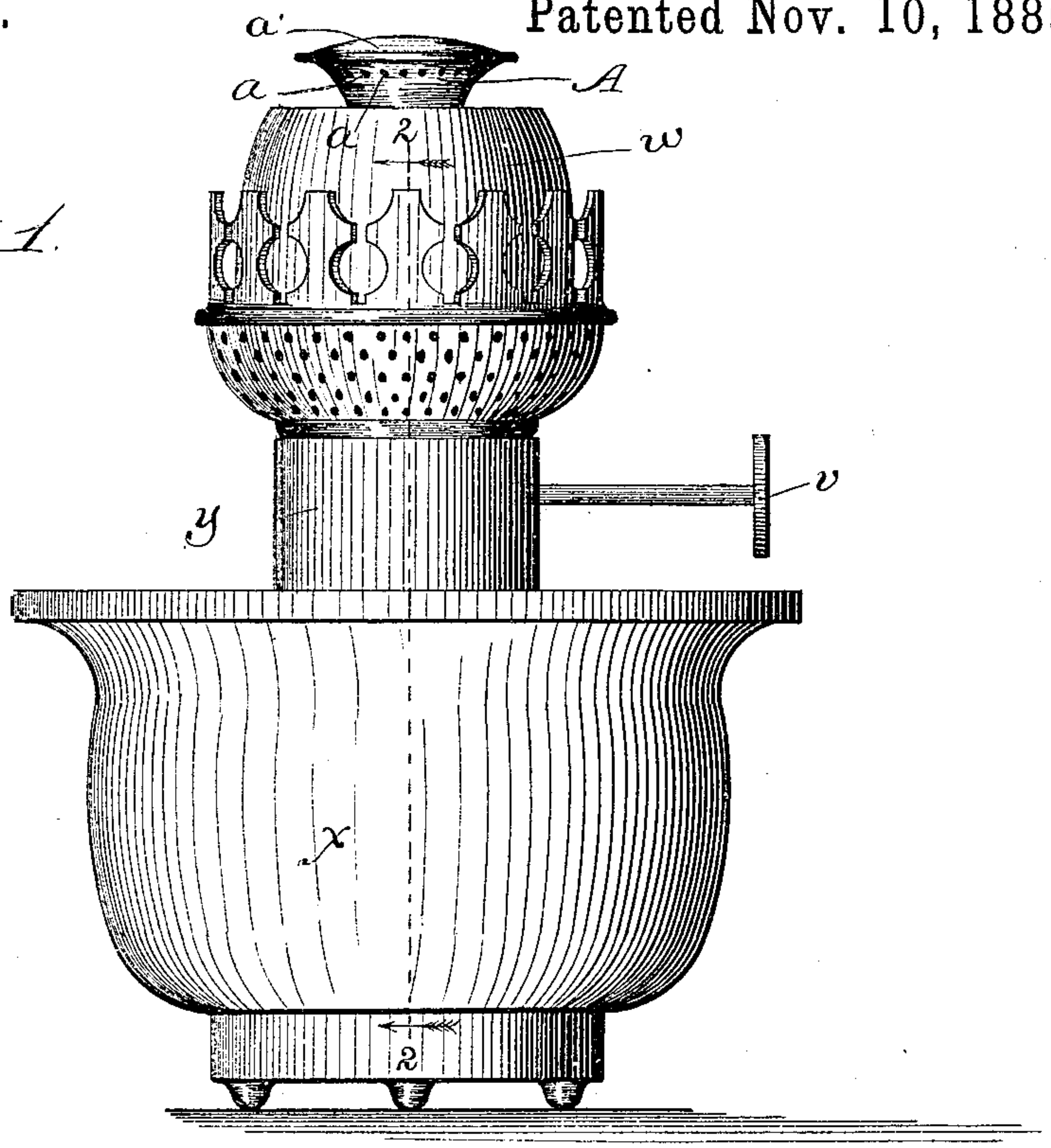


Fig. 2.

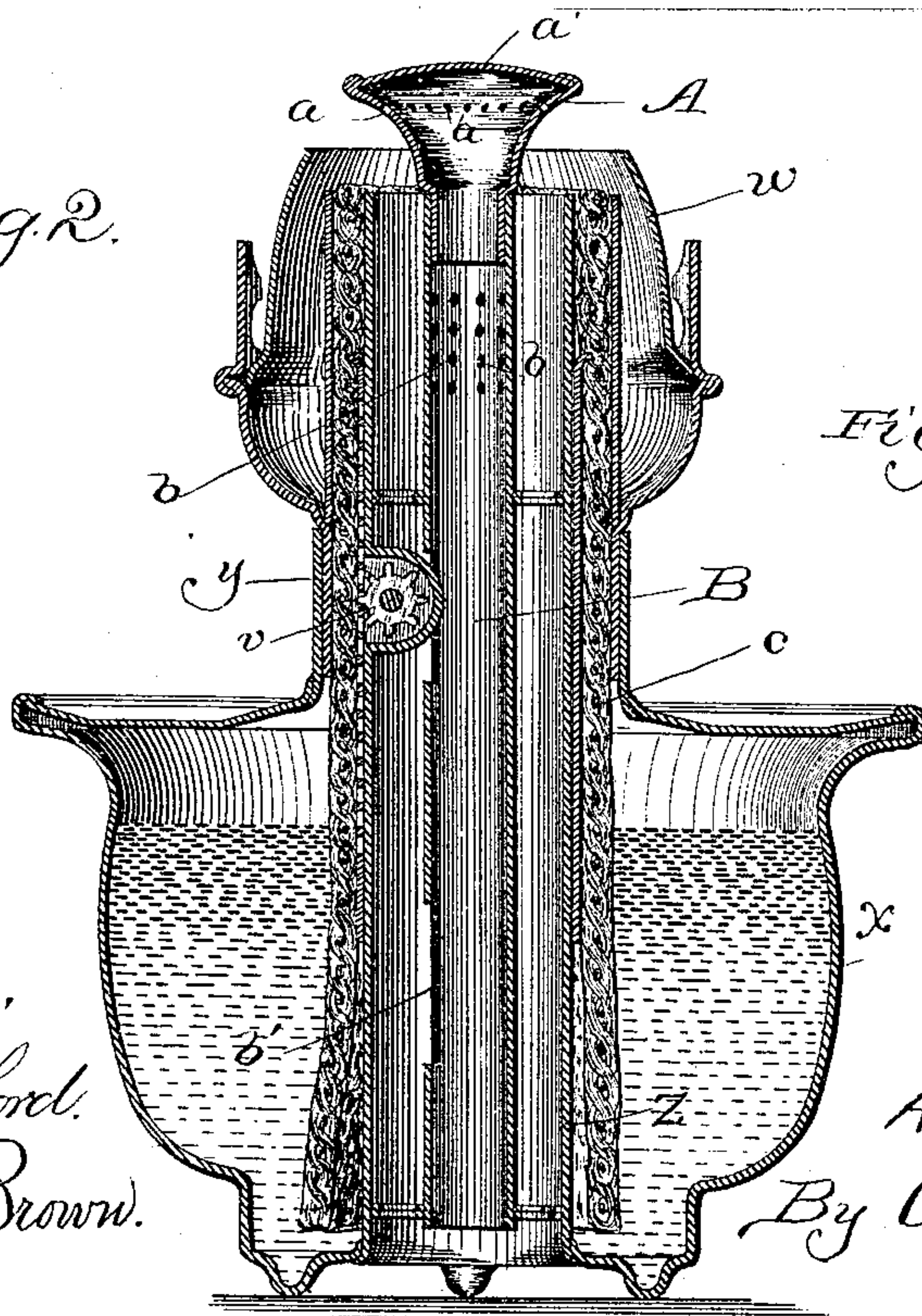
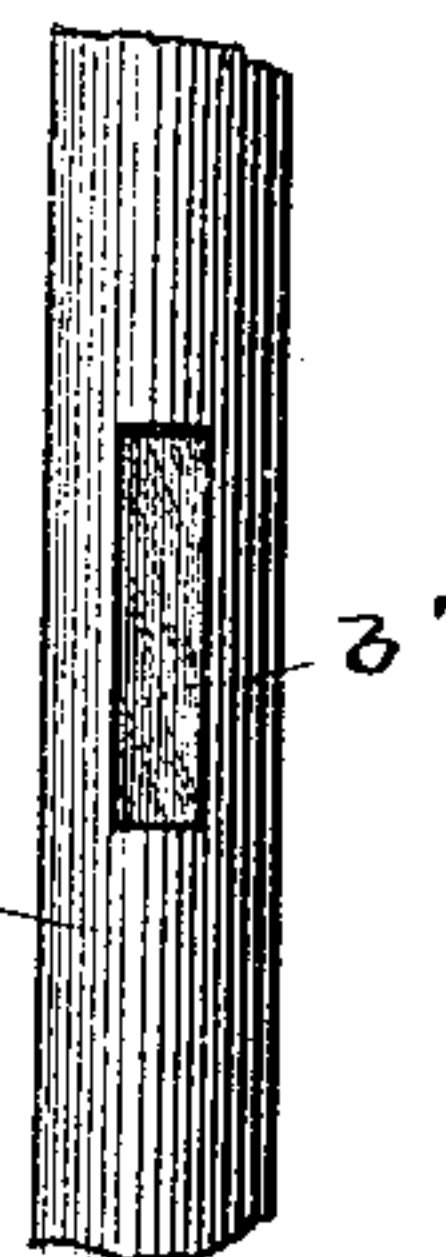


Fig. 3.



Witnesses:
Chas. C. Gaylord.
Flora L. Brown.

Inventor:
Adolph Geiss:
By Charles T. Brown,
Attorney.

UNITED STATES PATENT OFFICE

ADOLPH GEISS, OF CHICAGO, ILLINOIS.

LAMP.

SPECIFICATION forming part of Letters Patent No. 329,897, dated November 10, 1885.

Application filed June 23, 1884. Serial No. 135,828. (No model.)

To all whom it may concern:

Be it known that I, ADOLPH GEISS, a citizen of the United States, residing at Chicago, county of Cook, and State of Illinois, have invented certain new and useful Improvements in Lamps, of which the following is a specification.

My invention relates to that class or description of lamps in which a round or circular flame is produced, and in which the flame, protected by a chimney, is supplied with air both from the center and the outside thereof, and in which, also, the particular shape and form of the flame is given by the use of a cap or inverted or bell-shaped piece of metal placed in the center of the circle formed by the wick; and the lamps to which my invention particularly relates have a second tube placed inside of the tube forming the inner guide or wall of the wick.

For a more particular illustration of the general construction of the class of lamps to which my invention relates, reference is hereby made to the drawings accompanying this specification and forming a part thereof, in which—

Figure 1 is an elevation of one of my improved lamps. Fig. 2 is the cross-section on line 2 2 of Fig. 1. Fig. 3 is an elevation of a portion of the inner tube of the lamp.

The object of my invention is to direct and control the supply of air to the flame in such a manner as to render such flame more steady and constant in the use of the lamp, avoid and do away with all flickering of the flame as far as may be possible, and to render the flame less liable to sudden flirts or forks when the lamp is placed in a sudden or changing draft or gust of air than it has heretofore been.

Like letters refer to like parts throughout the several views.

X is the oil-reservoir. Y is the outer tube, surrounding and supporting the wick. V is the ratchet, by means of which the wick is controlled. W is the dome, surrounding the wick and the lower portion of the flame when the lamp is in use. Z is the inner wick-tube. B is a tube placed inside of tube Z. b

b are holes or gauze-like perforations in the upper portion of tube B. b' is a hole (one or more may be used) in the wall of tube B, by means of which an air communication is made between tube Z and tube B in the lower portion of tube B. b' is used in lamps which are or may be placed upon a bracket and supported on said bracket by a finger or rod entering into the lower portion of tube B, and need not be used if the lamp is not to be so placed upon a bracket or other supporting finger or rod.

A is a hollow inverted bell-shaped piece of metal. a a are perforations or holes in the lower or under side of A. a' is the top of inverted hollow bell-shaped piece A.

The manner of operation of my improved lamp is as follows: A chimney is placed upon the lamp in the place indicated by the drawings, Figs. 1 and 2, the lamp having been previously lighted. A draft or current of air is at once established in the dome W between said dome and said flame, and at the same time a current of air is established in tube Z and tube B. The current of air in tube Z is supplied to the flame of the lamp at or near the base thereof. The current of air in tube B ascends to the top thereof into the bell-shaped piece A, and there becomes subjected to a great degree of heat, and, escaping from said piece A through perforations a, it is directed outward and slightly downward into the flame of the lamp.

Holes b' are made in the lower part of air-tube B, so that air may be freely admitted thereto when the bottom of tube B is closed.

Having thus described my invention, its construction, and manner of operation, what I claim, and desire to secure by Letters Patent, is—

1. In a lamp of the character described, the tube B, placed in the center of the tube forming the inner wall of and supporting the wick, and having openings or holes b' in the lower portion thereof, and having openings, holes, or perforations b in the upper part thereof, all substantially as described, in combination with the hollow dome or inverted bell shaped

piece A, having top a' and holes or perforations a , all substantially as described, and for the purpose set forth.

2. In a lamp of the character described, the
5 air-tube B, placed in the center of the tube forming the inner wall of and supporting the wick, and having openings or holes b' in the lower portion thereof, in combination with

the hollow dome or inverted bell-shaped piece A, having top a' and holes or perforations a , 10 all substantially as described, and for the purpose set forth.

ADOLPH GEISS.

Witnesses:

FLORA L. BROWN,
L. L. KLEINE.