

B. F. ADAMS.

Lamp Burner.

No. 106,302.

Patented Aug 16, 1870.

Fig. 3.

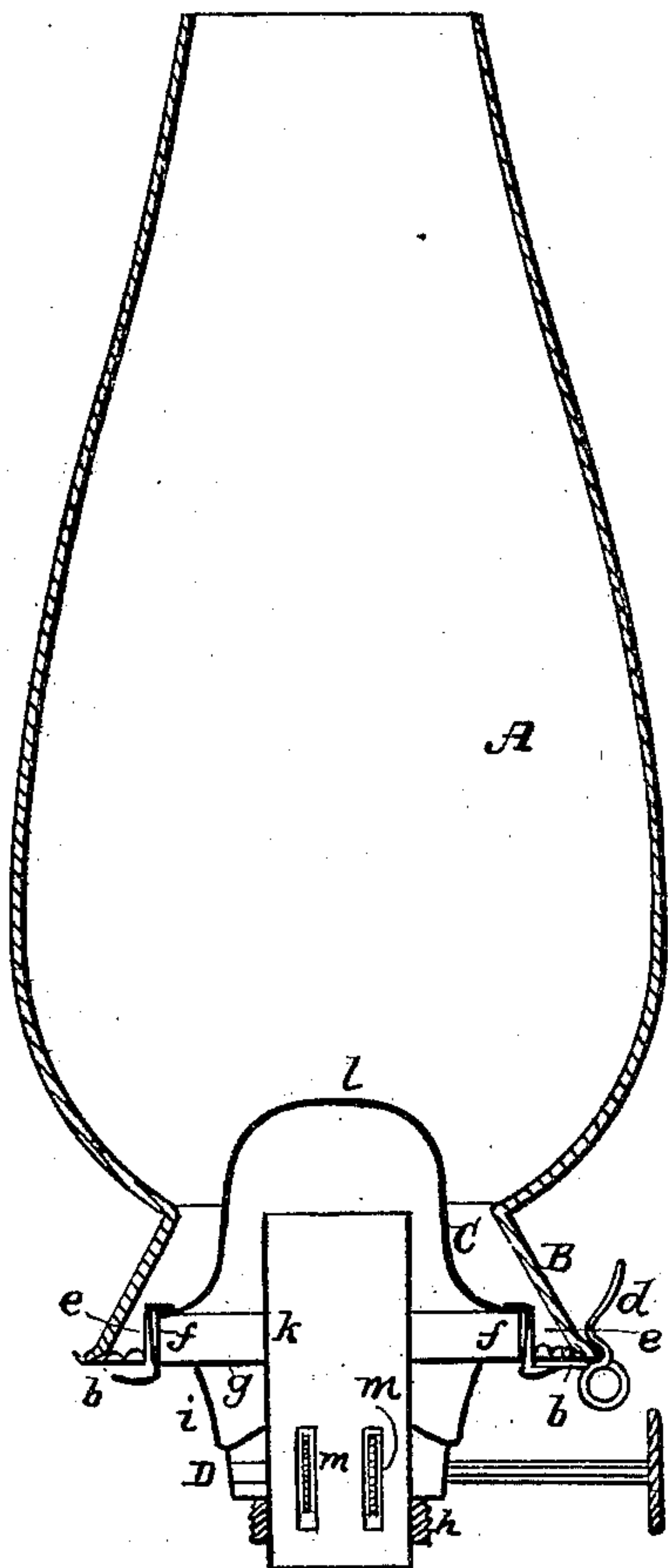


Fig. 4.

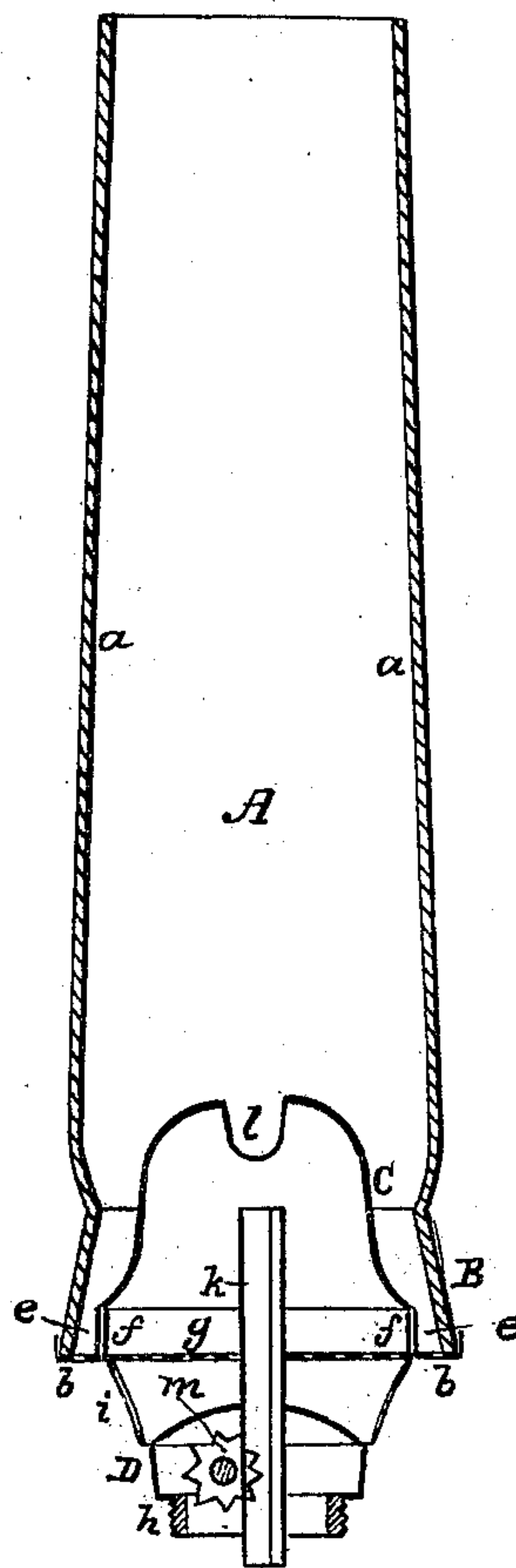


Fig. 1.

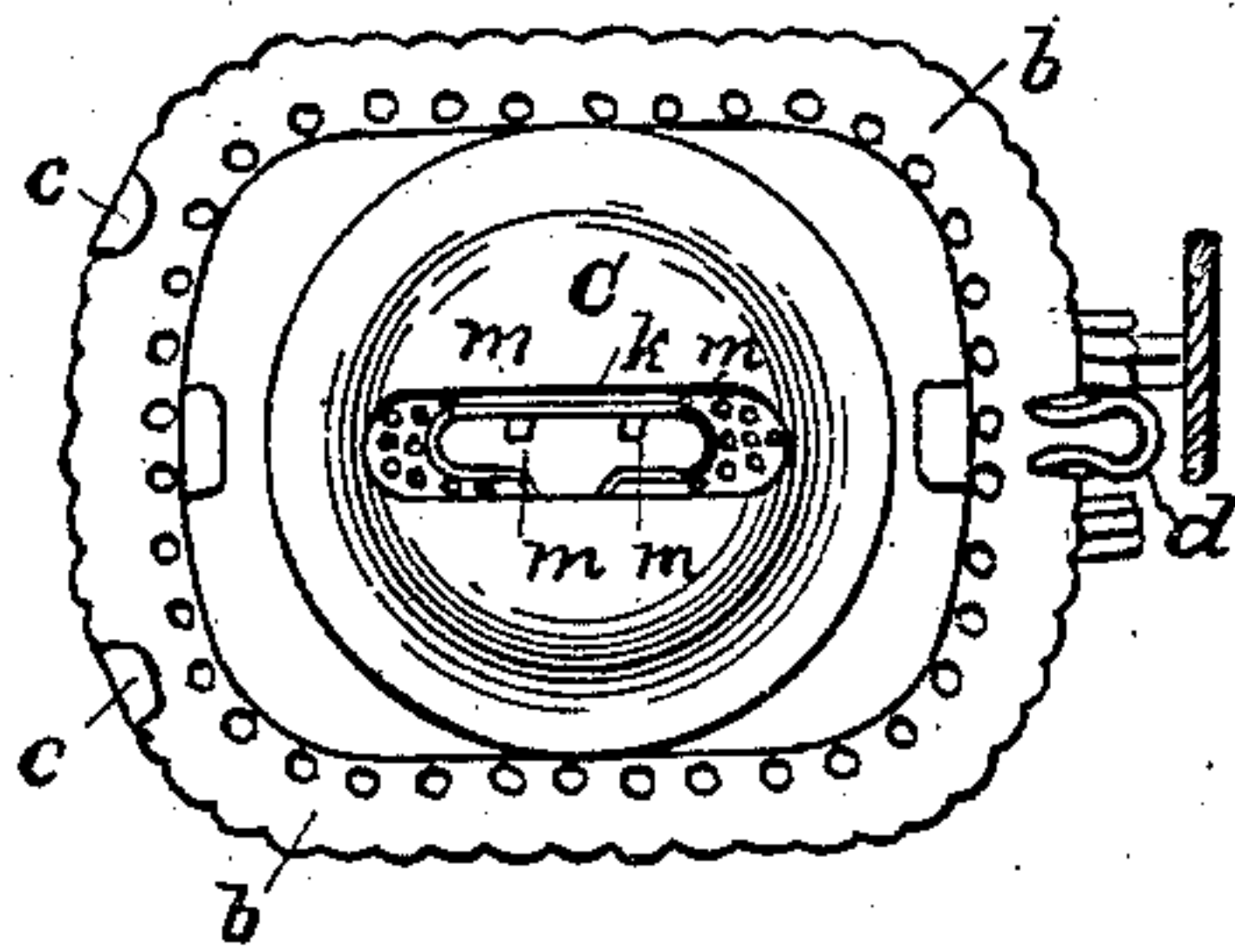


Fig. 2.

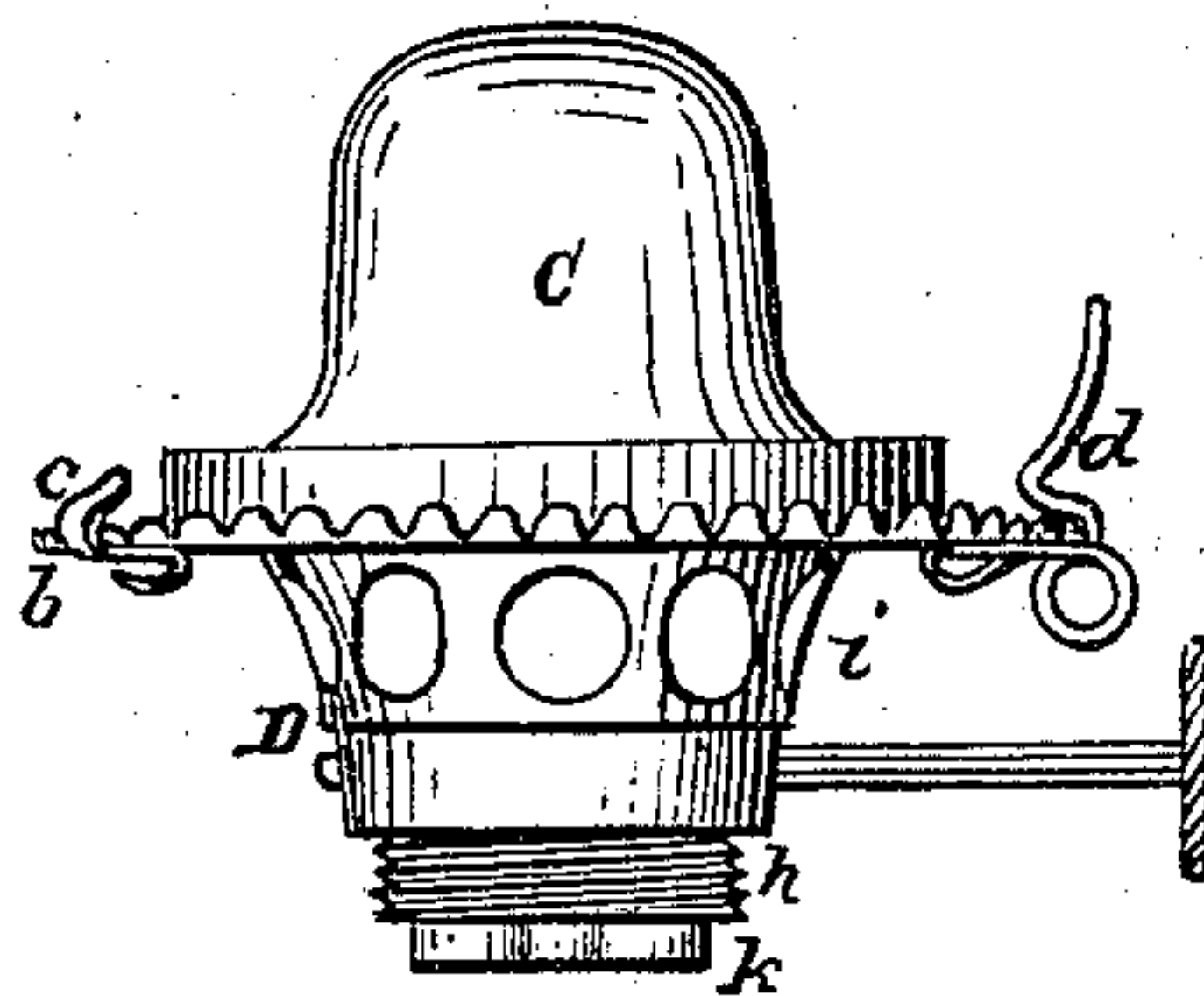
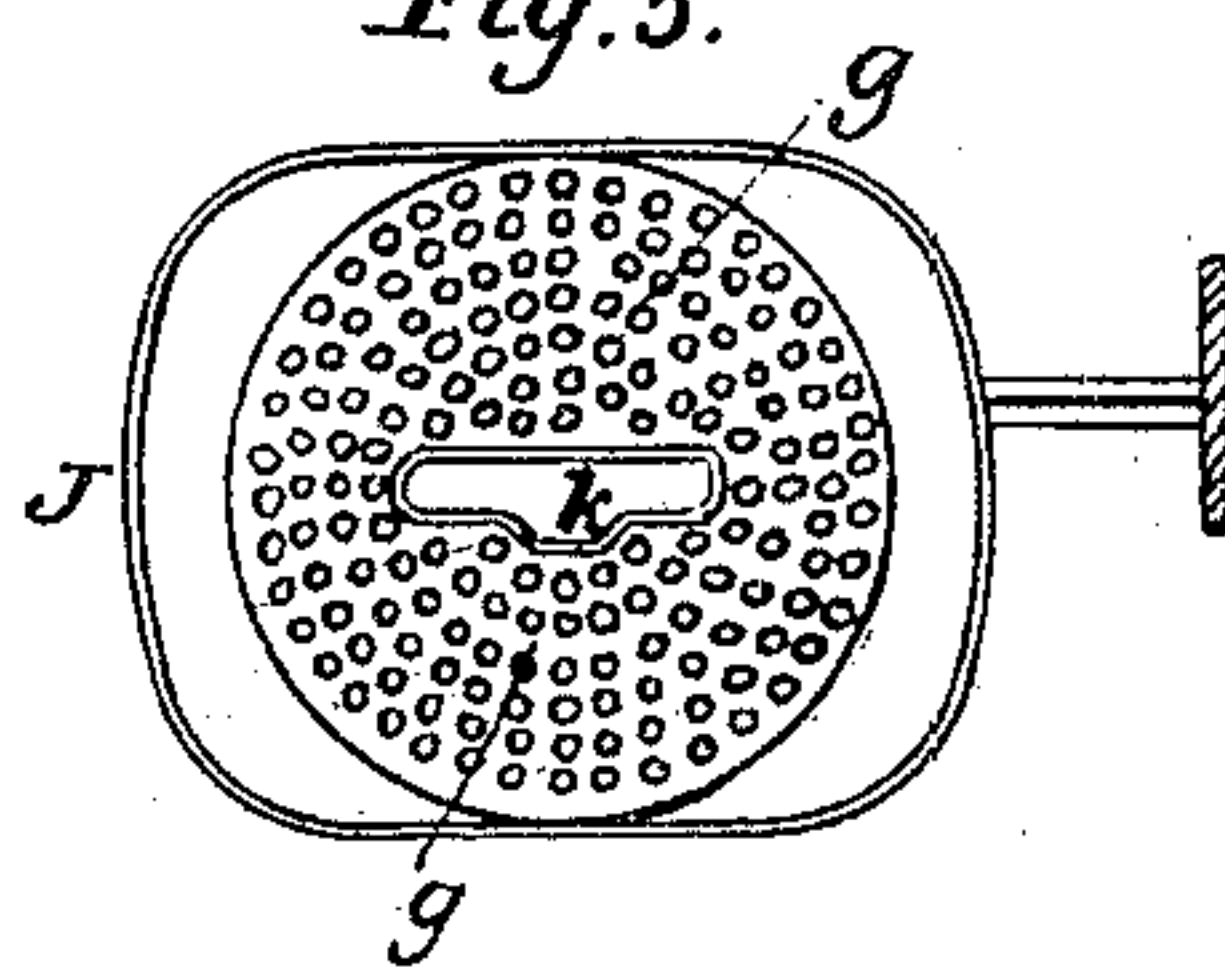


Fig. 5.



Witnesses:

S. N. Piper
J. H. Snow

Inventor:
Benjamin F. Adams

by his attorney
R. H. Eddy

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Fig. 6.

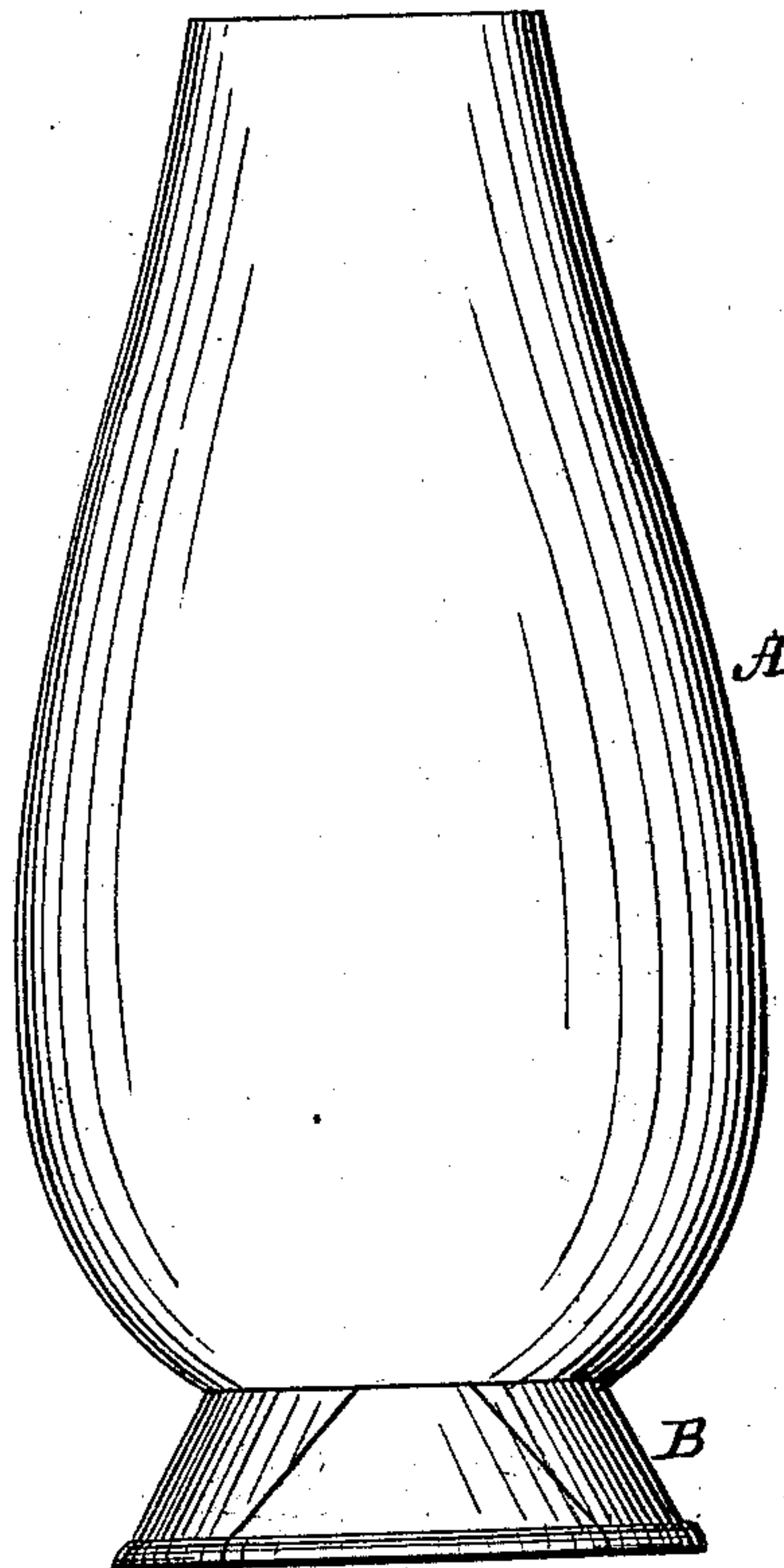


Fig. 7.

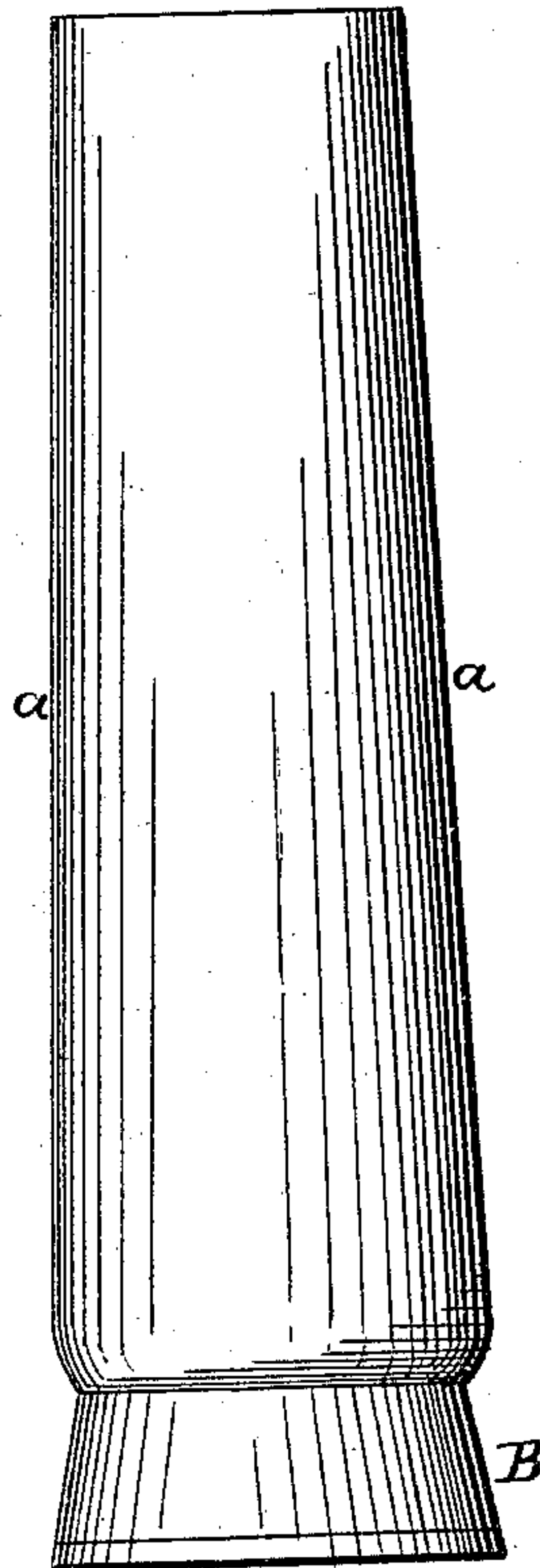
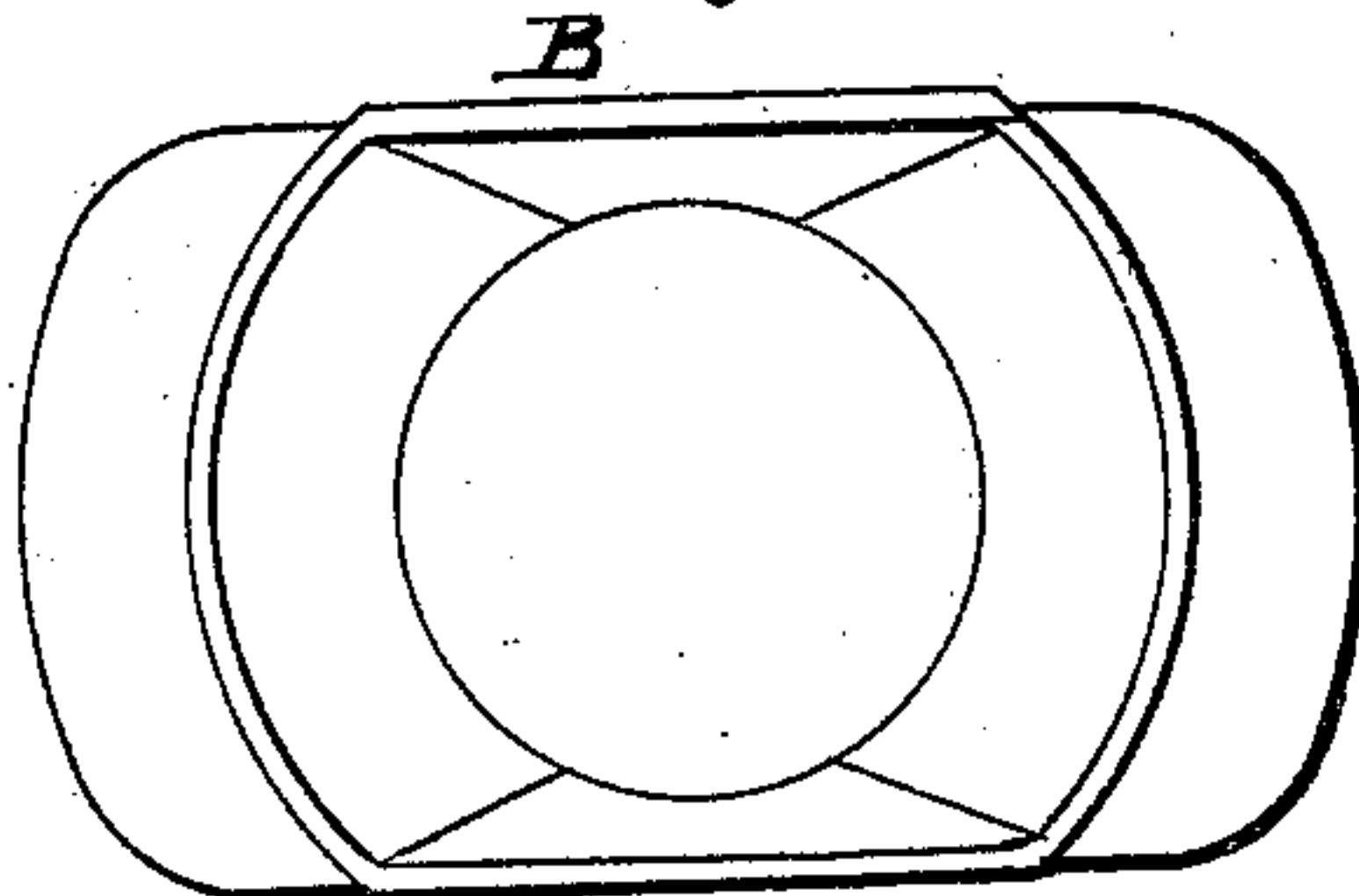


Fig. 8.



Witnesses:

S. C. Piper
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UNITED STATES PATENT OFFICE.

BENJAMIN FRANKLIN ADAMS, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN LAMP-BURNERS.

Specification forming part of Letters Patent No. **106,302**, dated August 16, 1870.

To all persons to whom these presents may come:

Be it known that I, BENJAMIN FRANKLIN ADAMS, of Roston, in the county of Suffolk and State of Massachusetts, have made a new and useful invention having reference to Burners for Lamps; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawing, making part thereof, of which—

Figure 1 is a top view, Fig. 2 a side elevation, and Figs. 3 and 4 are transverse and vertical sections, of one of my improved burners. Fig. 5 is a top view of the foraminous base part of the burner.

This burner is especially intended for a glass chimney having an oblong base, a side elevation of such chimney being exhibited in Fig. 6, an edge view in Fig. 7, and a bottom view in Fig. 8, vertical sections of it being represented in Figs. 3 and 4.

The chimney A has its opposite sides *a a* parallel, is circular at top, is conical or formed tapering on its edges, and drawn in at its lower part, and there united to an oblong air-deflecting base, B, which, when the chimney is in use, surrounds the cone or inner air-deflector C, in manner as represented in Figs. 3 and 4. The said deflector C is provided with a foraminous lip or seat, *b*, for the lower edge of the base B to rest upon, such base being held to the lip by hooked projections *c c* and a spring-latch, *d*, all formed and arranged as represented. The cone or deflector C is also provided or formed with an oblong recess or socket, *e*, to receive the upper portion, *f*, of the base part D of the burner. The said portion *f* is an oblong dish, having a foraminous bottom, *g*, and being united to the screw-box *h* by a hollow perforated conical or tapering connection, *i*. The wick-tube *k* extends up through the box *h* and the portion *f* and above the latter, in manner as shown, the wick-elevator with its operative shaft being represented at *m*. The portion or dish *f* forms a cup or vessel to catch the carbon which may fall from the wick, and it also serves as an oblong tenon to fit into the socket *e*, the two,

in consequence of their being oblong and arranged with the wick-tube and the inner air-deflector, in manner as shown, serving, when together, to bring the upper orifice, *b*, of the deflector into its correct working position with the wick-tube.

The base part of the chimney being oblong, and made to extend around the portion *f* and rest on the lip *b*, will, with the lip, cause the chimney to assume its correct position with reference to the opening of the upper part of the deflector C.

A particular advantage of my construction of burner is that it admits of the ready removal of the chimney and cone or deflector from the wick-tube and its supporter, when occasion may require, for trimming the wick, or for other purposes.

The extra air-deflector made upon the chimney causes the air for the outer surface of the flame to be thrown in such a manner upon it as not only to facilitate combustion, but to prevent the flame from flickering or wavering and smoking the inner surface of the chimney.

I do not claim an elongated-base lamp-chimney formed as represented in the United States Patents Nos. 36,078 and 40,228, nor as shown in the rejected application of Requa, filed February 27, 1868.

What I claim as my invention is as follows, viz:

1. The chimney as made not only with the flat-sided oblong tapering base B and parallel sides *a a*, but with the oblong and tapering body and the circular top, all formed as described and represented.

2. Also, the air-deflector C, as made with the oblong socket *e* and foraminous chimney-rest *b*, in combination with the screw base or wick-tube supporter as made or provided with the oblong foraminous dished tenon *f* to enter the socket *e*, and to be held in connection therewith by means substantially as explained.

BENJ. F. ADAMS.

Witnesses:

R. H. EDDY,
J. R. SNOW.