

(No Model.)

L. J. ATWOOD.

LAMP BURNER.

No. 324,068.

Patented Aug. 11, 1885.

Fig. 1.

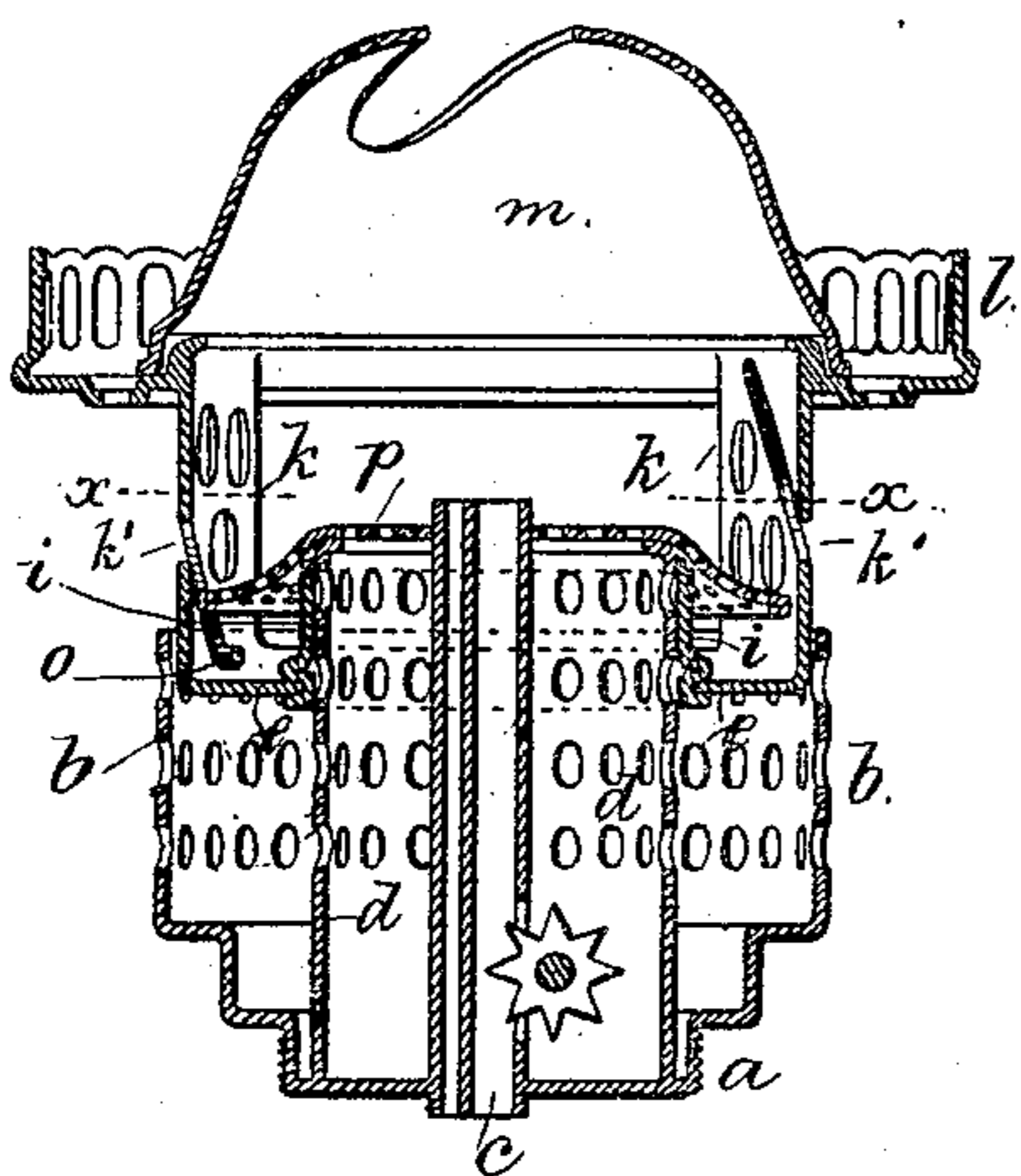


Fig. 2.

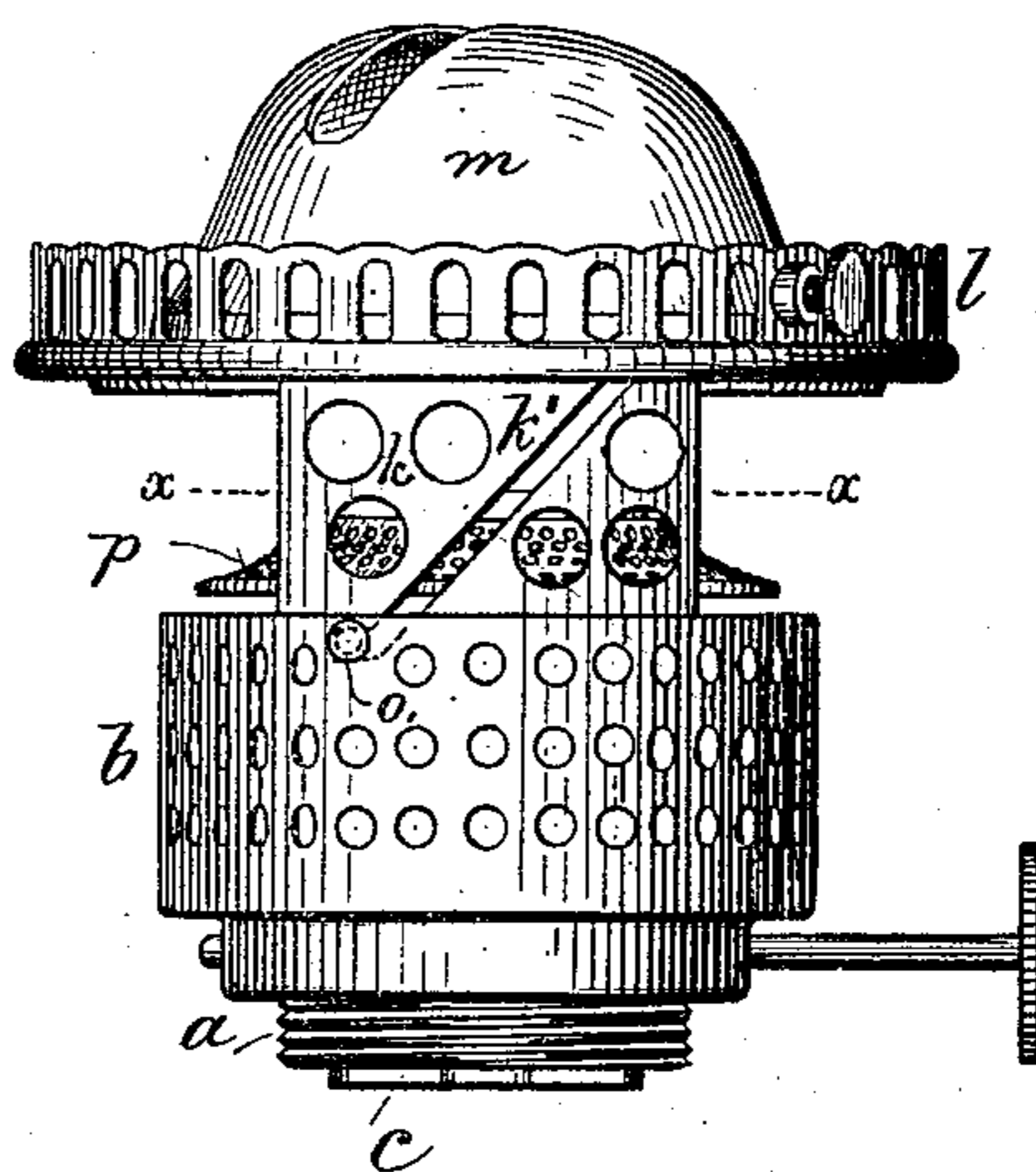
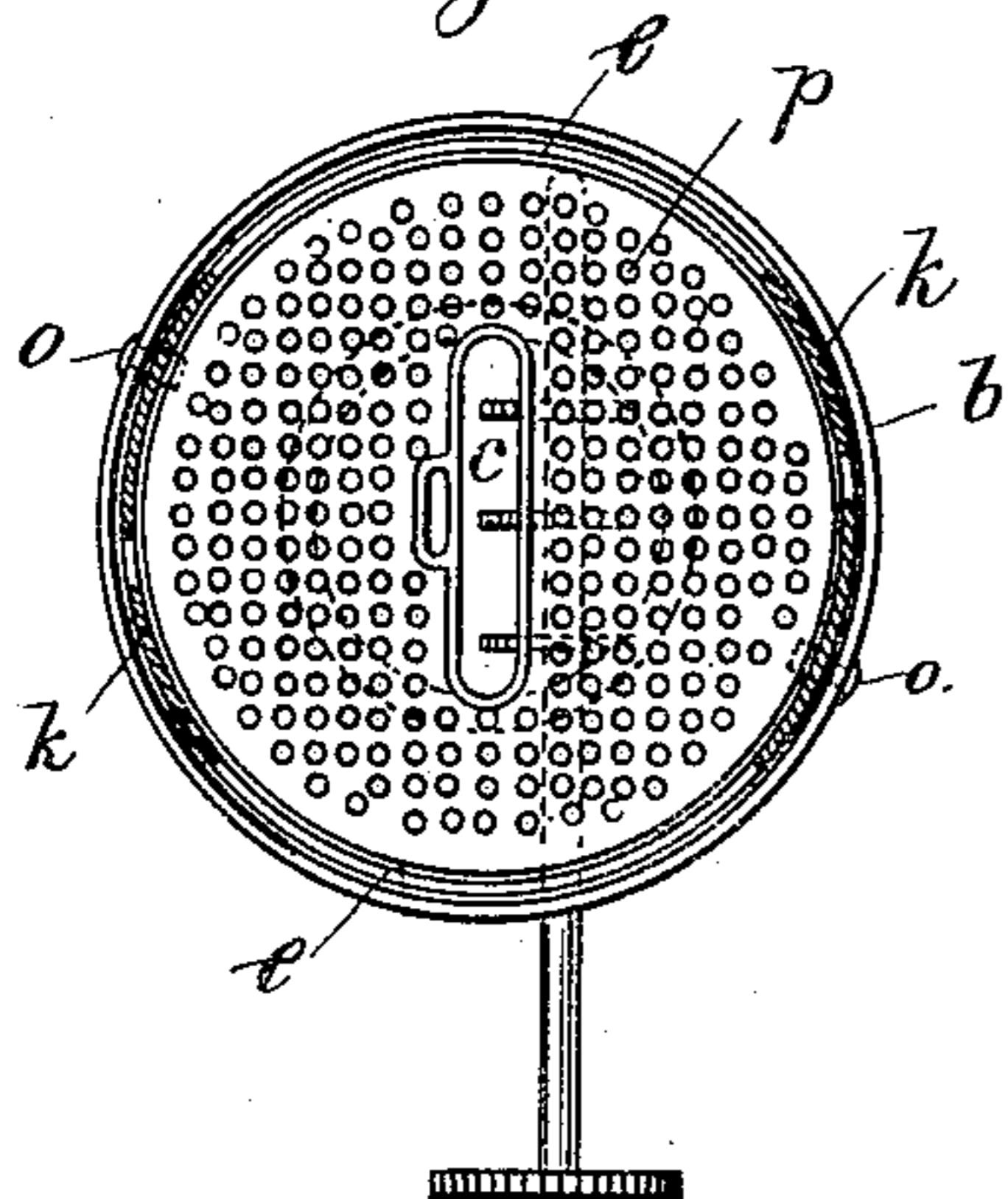


Fig. 3.



Inventor

Lewis J. Atwood

For Lemuel W. Terrell

att'y

Witnesses.

Chas. H. Smith

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UNITED STATES PATENT OFFICE.

LEWIS J. ATWOOD, OF WATERBURY, CONNECTICUT.

LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 324,068, dated August 11, 1885.

Application filed September 10, 1884. (No model.)

To all whom it may concern:

Be it known that I, LEWIS J. ATWOOD, of Waterbury, in the county of New Haven and State of Connecticut, have invented an Improvement in Lamp-Burners, of which the following is a specification.

Lamp-burners have been made with three screw-sections below the chimney-holder, passing down into a cylindrical perforated body, and acting to raise the said holder when partially rotated. In these lamps it is found that the screw-sections become bent, and that they do not furnish a sufficiently rigid support to the chimney-holder when raised.

My invention relates to a peculiarly-constructed support for the chimney-holder, whereby greater strength is obtained, and the chimney-holding supports do not interfere with the use of scissors in trimming the wick.

In the drawings, Figure 1 is a vertical section of the lamp with the chimney-holder elevated. Fig. 2 is a side view of the same, and Fig. 3 is a sectional plan at the line *x x*.

The wick-tube *c*, screw-base *a*, and perforated cylindrical body *b* are similar to those before made use of. Around the tube *c* there is placed a cylinder, *d*, that is firmly attached at its lower end within the screw-base *a*, and the upper end is slightly below the top of the wick-tube. Around this cylinder *d* and within the body *b* is the metallic ring *e*, preferably formed with a cylindrical flange, *i*, in contact with the exterior of such cylinder *d*, and from opposite edges of this ring the incline connections *k* rise to and are connected with the chimney-holder *l*, which holder is of any ordinary or desired construction, and there is a cone or deflector, *m*, as usual.

In the connections *k* there are either ribs or slots *k'* at an inclination, and there are projections at *o* upon the interior of the body *b*, acting with such ribs or slots, so that the chimney-holder will be raised by giving to it a partial turn. The incline connections are placed so that when raised they come opposite to the sides of the wick-tube, thereby giving opportunity for cutting the wick or for wiping it off.

This mode of making the parts insures great

strength with comparatively thin metal, because the ring *e* supports the lower ends of the incline connections, and is itself supported by the cylinder *d*, and if any pieces of carbon fall into the body of the burner this ring lifts them to a point where they are easily removed.

The air-distributor may be partially upon the interior portion of the chimney-holding ring, but I prefer to attach the same to the top of the cylinder *d*, as seen at *p*. This allows the incline connections to be moved between the edge of the air-distributor and the interior of the body *b*.

Usually there will be perforations in the connections *k*, so as not to interfere with the passage of air, and also perforations in the cylinder *d*, to allow air to pass up to the base of the flame.

I do not claim a burner in which the deflector and chimney-holder are raised by the action of inclines connected with the chimney-holder, and a cylinder within which such inclines are received, as the same are shown in Letters Patent Nos. 66,635 and 37,281.

I do not herein lay claim to a cylinder around the wick-tube, and inclines by which the chimney-holder is raised, as the same are set forth in my application No. 142,552, filed September 10, 1884.

I claim as my invention —

1. The combination, in a lamp-burner, of the screw-base *a*, perforated body *b*, guide-cylinder *d*, ring *e*, connections *k*, extending upwardly from the edges of the ring *d*, and having inclined indentations or slots, the projections *o*, and the chimney-holder *l*, substantially as set forth.

2. The chimney-holder *l* and deflector, in combination with the incline connections *k*, ring *e*, cylinder *d*, wick-tube *c*, and air-distributor connected with the upper end of the cylinder *d*, substantially as set forth.

Signed by me this 30th day of August A. D. 1884.

L. J. ATWOOD.

Witnesses:

R. T. LATTIN,
B. B. BRISTOL.