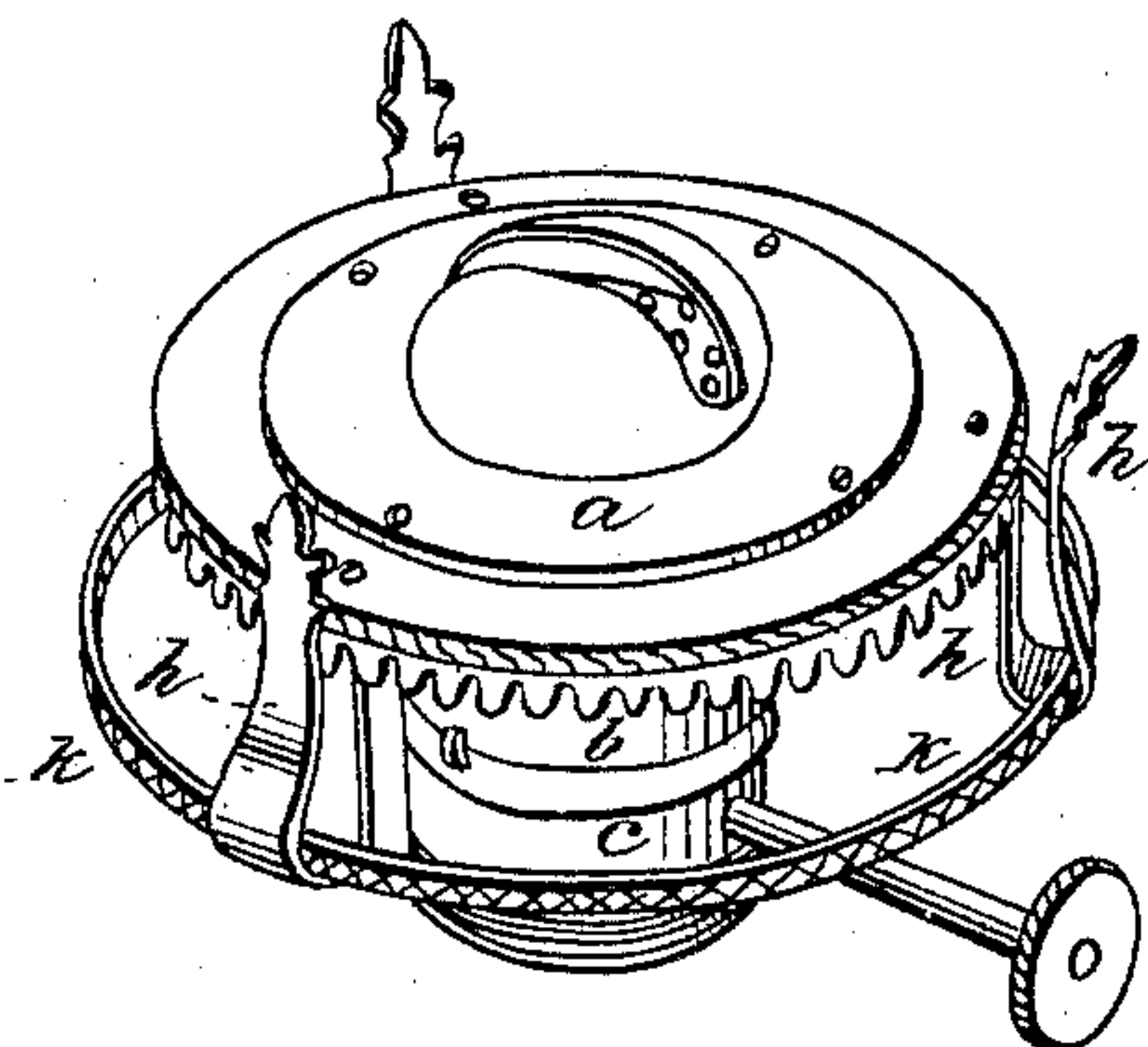


J. H. WEEDEN.  
Lamp-Chimney Holder.

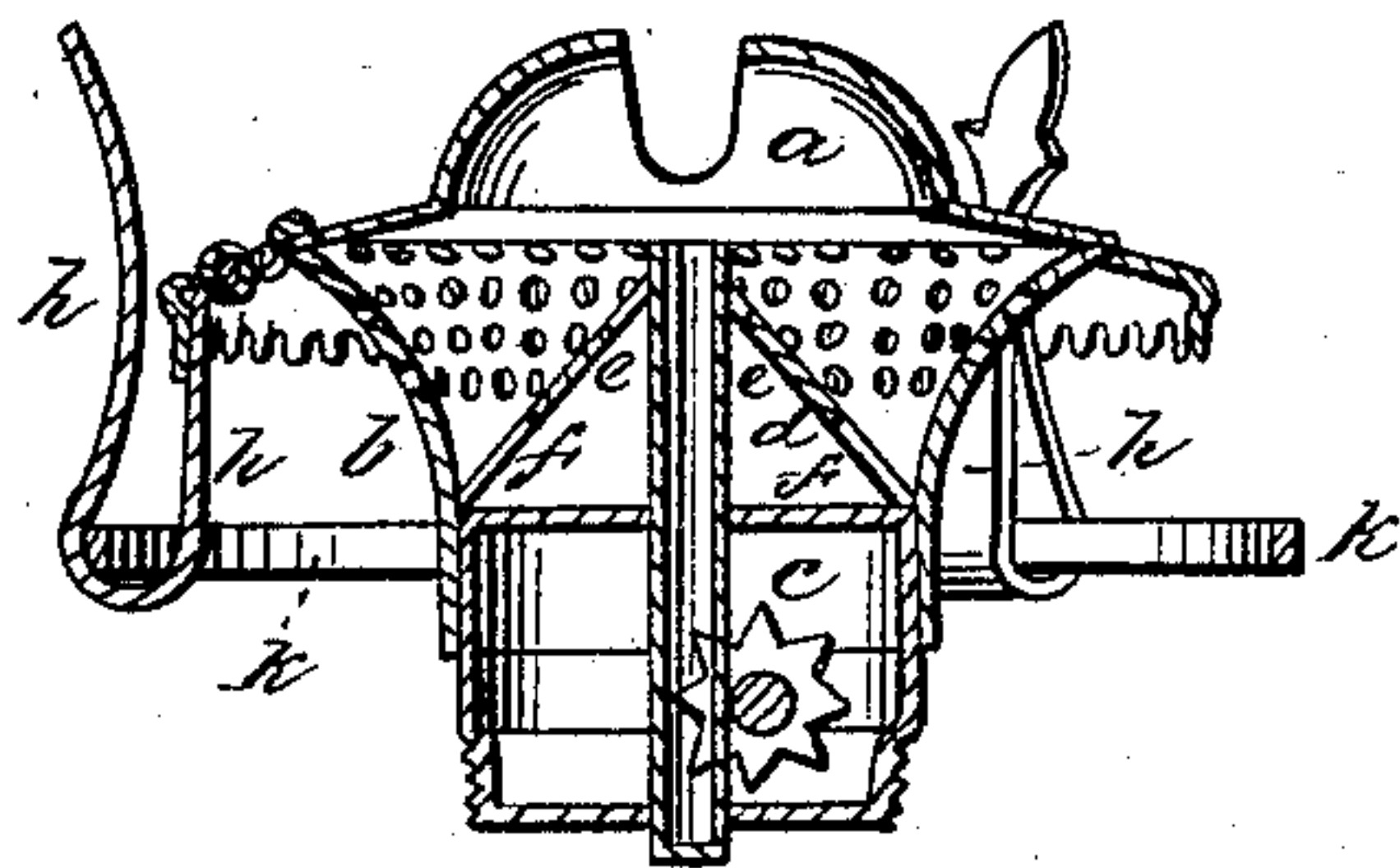
No. 94,533.

Patented Sept. 7, 1869.

*Fig. 1*



*Fig. 2*



Witnesses

*Wm. Daly*  
*Wm. H. G. Gable*  
" " " "

Inventor

*J. Hubbard Weeden*  
by his attorney

*A. Beek*



# United States Patent Office.

JOHN HUBBARD WEEDEN, OF WATERBURY, CONNECTICUT, ASSIGNOR TO SCOVILLE MANUFACTURING COMPANY.

Letters Patent No. 94,533, dated September 7, 1869.

## IMPROVEMENT IN LAMP-BURNERS.

The Schedule referred to in these Letters Patent and making part of the same.

### To whom it may concern:

Be it known that I, JOHN HUBBARD WEEDEN, of Waterbury, in the county of New Haven, and State of Connecticut, have invented certain new and useful Improvements in Lamp-Burners; and I hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of a burner, made in accordance with my invention.

Figure 2 is a vertical central section of the same.

My invention relates, principally, to means for supporting the chimney of lamp-burners, and consists in the employment, with hooks or clips for receiving and holding the base of the chimney, of a ring extending around the burner and connecting the hooks, so as to render them more steady and better fitted for the purpose for which they are designed than has heretofore been practicable.

The invention is particularly adapted for that species of burner in which the base of the chimney passes over and extends below the deflector, and surrounds the lower portion of the burner. In this case, the chimney-holding hooks are attached to and hang from the deflector, and are preferably so made as to constitute springs to tightly hold and clamp that part of the chimney which they receive. A ring passing around the burner, and attached to each one of these hooks, serves admirably to steady and stiffen the latter, and to prevent their displacement. It moreover shields and protects the base of the chimney, and renders it practicable to employ a less number of hooks than has heretofore been possible.

To enable others skilled in the art to understand and use my invention, I will now proceed to describe the manner in which the same is or may be carried into effect, by reference to the accompanying drawings.

The deflector *a* is supported in position above the wick-tube by the flaring air-distributor *b*, whose lower end is formed so as to fit around the base *c* of the burner.

The flame-slot in the deflector is assured in its proper position above the wick-tube by means of an inner sleeve, *d*, whose base is secured to the inside of the air-distributor, and whose upper end is drawn in so as to fit around the wick-tube, as seen in fig. 2.

The upper portion, consisting of the deflector, air-distributor, chimney-holder, and accessory parts, is thus made removable from the lower portion or base, as is usual in burners of this class.

In order to admit of air passing to the wick through the sleeve *d*, thus increasing the brilliancy of the flame, I cut away a portion of the sleeve, at the bottom and top, on each side of the wick-tube, as shown at *e f*, so that although the base of the burner is tightly closed, a portion of the air which enters through the air-distributor *b*, will pass down into the lower

apertures *f* of the sleeve, and thence up to the flame, thus forming a double current of air for the flame below the deflector.

The chimney-holding hooks *h* are secured to the deflector at or near its periphery, in this instance, and extend down below the same a suitable distance. The free ends of the hooks are bent upward, and I prefer that they should constitute springs, so that when the chimney is slipped over the deflector and down into the hooks, the springs will clamp the chimney and hold it firmly in place in the hooks, the periphery of the deflector also serving as an additional support.

For the purpose of steadying the hooks, and for other purposes hereinbefore mentioned, I make use of a ring, *k*, which encircles the burner, and in this instance passes through the lower portion of each hook, being received into the recess formed by the bulging part of the outer end of the hook, so as not to interfere with the proper adjustment of the chimney, while at the same time it is so placed as to encircle and protect the base of the chimney. The ring serves to stiffen the chimney-holding hooks, and to prevent their becoming displaced or disarranged in any way, and it also enables me to employ a less number of hooks than has heretofore been practicable.

While preferring the arrangement shown in the drawing, it will be understood that the chimney-holding hooks may be attached to any suitable portion of the burner, this being determined by the construction and arrangement of the parts of the burner with which they are used, and that the stiffening-ring may be secured to any desired portion of the hooks, the principal object being, as before stated, to give the hooks firmness and stability.

Having now described my invention, and the manner in which the same is or may be carried into effect,

What I claim, and desire to secure by Letters Patent, is—

1. The employment, in a lamp-burner of otherwise ordinary or suitable construction, of a series of chimney-holding hooks, with a stiffening-ring united with and connecting said hooks, substantially as and for the purposes described.

2. The combination, with the deflector, and the air-distributor supporting said deflector, and fitting upon the base of the burner, of a series of chimney-holding spring hooks, attached to and hanging from said deflector, and a ring encircling the burner and united with said hooks, substantially as shown and described.

In testimony whereof, I have signed my name to this specification, before two subscribing witnesses.

JOHN HUBBARD WEEDEN.

Witnesses:

MARK L. SPERRY,  
GEO. B. KERR.