

J. H. JOHNSON.
Lamp Burner.

No. 102,552.

Patented May 3, 1870.

FIG. 1

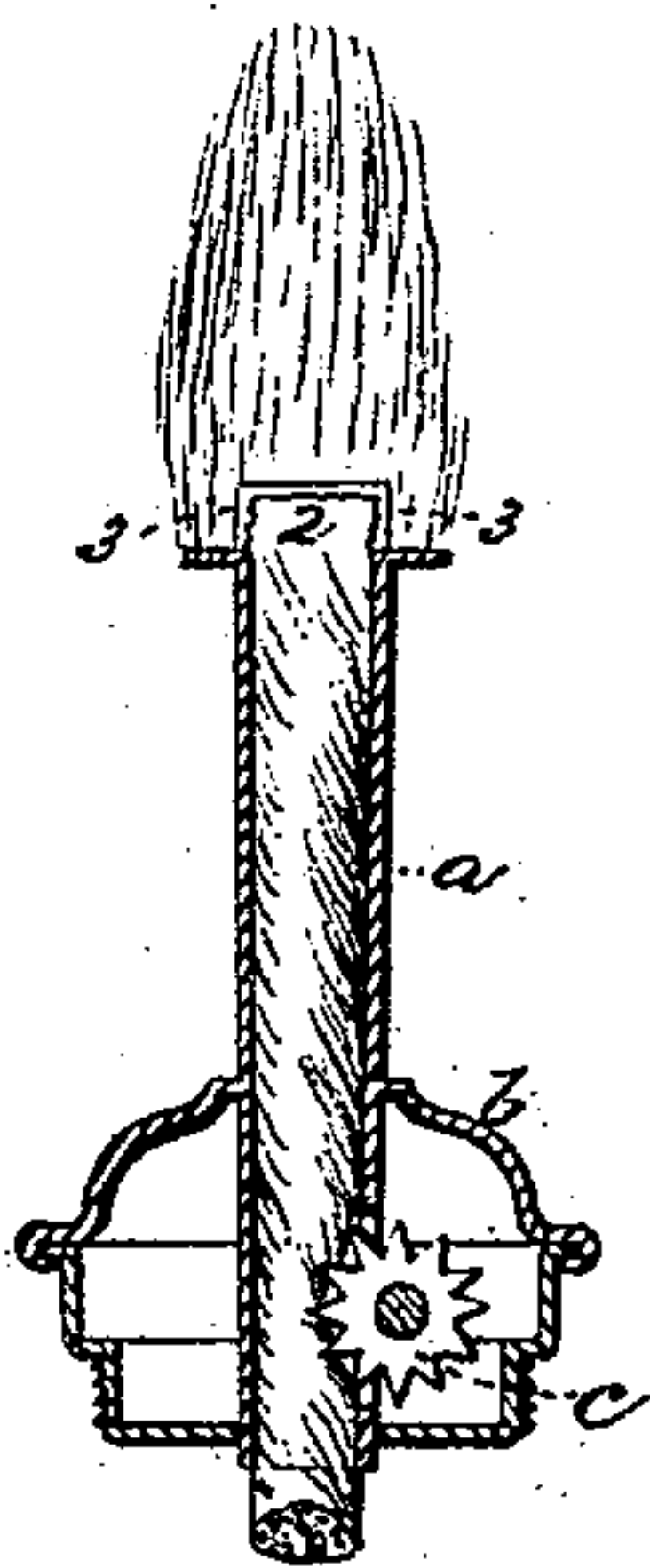
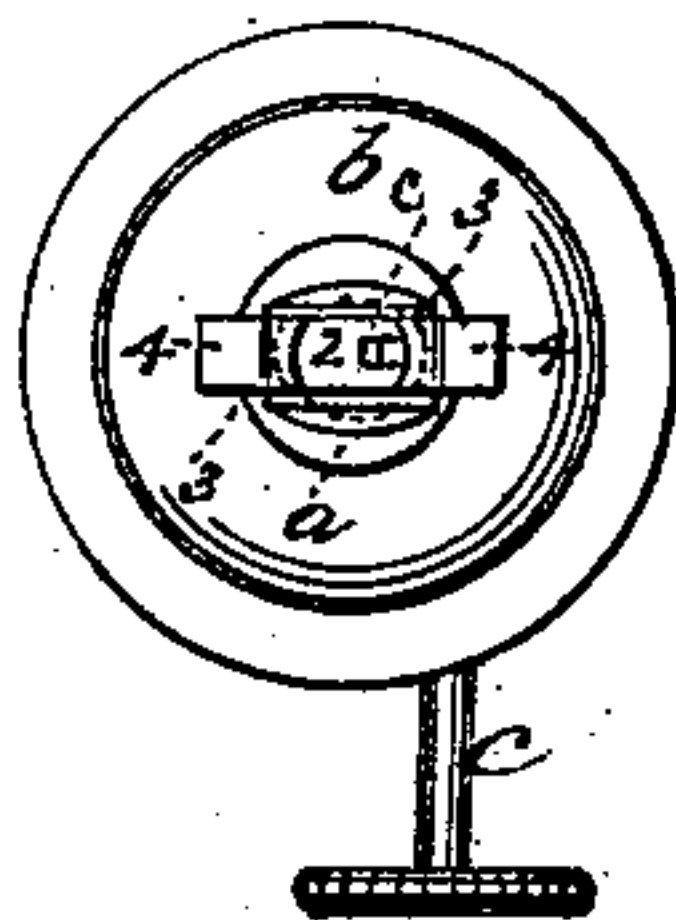


FIG. 2



WITNESSES:

Chas. H. Smith

Geo. A. Maerker.

INVENTOR:

James H. Johnson

for Lemuel W. Gerrell

[Signature]

United States Patent Office.

JAMES H. JOHNSON, OF NEWARK, NEW JERSEY, ASSIGNOR TO HOLMES,
BOOTH & HAYDENS, OF WATERBURY, CONNECTICUT.

Letters Patent No. 102,552, dated May 3, 1870.

IMPROVEMENT IN LAMP-BURNERS

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

To all whom it may concern:

Be it known that I, JAMES H. JOHNSON, of Newark, in the county of Essex and State of New Jersey, have invented an Improvement in Lamps, and the following is declared to be a correct description thereof.

Lamp-burners have been made with a round wick-tube, and with an exterior air-tube coming up above such wick-tube, from the edges of which the flame rises. This exterior tube serves to lessen the heat of the wick-tube, by keeping the flame from direct contact with the same.

Deflecting-plates have also been employed above or around the wick-tube, to direct the air that passes to the flame, and, in some cases, to spread the flame.

My invention consists in a wick-tube having openings on opposite sides at the upper end, and with wings applied below these openings.

The result of this construction is that the flame from the wick is spread, rendered thin, and the combustion made more perfect than heretofore.

The wick does not require to project above the upper end of the wick-tube, because it is exposed at the two sides, and beneath these portions are the said wings. Hence the flame spreads and burns above these wings and the upper end of the wick-tube, and the wick itself does not become charred and consumed as rapidly as usual.

The flame being spread out thin, there is better opportunity for the air to act in rendering the combination perfect.

In the drawing—

a is the wick-tube of a burner, of any desired character.

b is the ratchet-cap, and

c, the wick-raiser.

My improvement is shown upon a "no-chimney" burner, but I do not limit myself in this particular.

The upper end of the wick-tube is either straight or slightly rounding at 2, and the openings at 3 3 extend partially down the wick-tube, and at opposite sides or edges of the same; and 4 4 are the wings spread out horizontally, or nearly so, from the base of these openings.

I have shown in—

Figure 1 a vertical section of said lamp-burner, and in

Figure 2, a plan of the same, in a form adapted to a cord or round wick.

This improvement, however, might be applied with a flat or other wick, and more than two wings might be used, if desired.

I claim as my invention—

The openings 3 in the wick-tube, combined with the wings 4, extending out from the bottom portions of such openings, substantially as and for the purposes specified.

Signed by me this 25th day of March, A. D. 1870.
JAS. H. JOHNSON.

Witnesses:

CHAS. H. SMITH,
GEO. T. PINCKNEY.