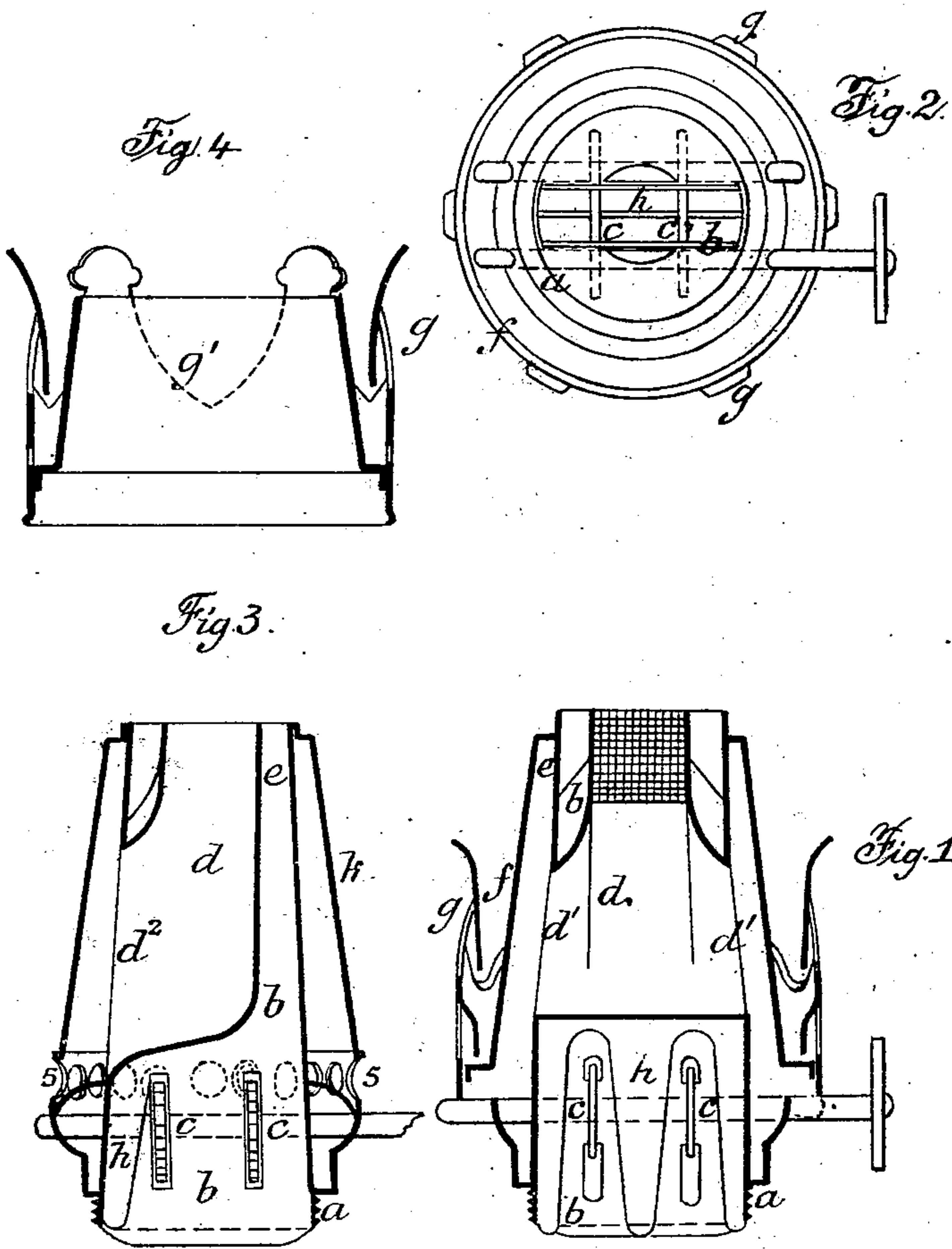


T. ADAMS.  
Lamp Burner.

No. 92,771.

Patented July 20, 1869.



Chas. H. Smith  
Geo. T. Pinckney

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# United States Patent Office.

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Letters Patent No. 92,771, dated July 20, 1869.

## 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, THOMAS ADAMS, of Hudson City, in the county of Hudson, and State of New Jersey, have invented and made a new and useful Improvement in Lamp-Burners; and I do hereby declare the following to be a full, clear, and exact description of the said invention, reference being had to the annexed drawing, making part of this specification, wherein—

Figure 1 is a vertical section of a lamp fitted with my improvement, and

Figure 2 is an inverted plan of the same.

Figure 3 is a vertical section of a lamp-burner, of a slightly different construction, fitted with my improvement, and

Figure 4 is the chimney-holder detached.

Similar marks of reference denote the same parts.

A lamp for coal-oils was patented, February 25, 1868, No. 74,793, in which two wicks are used, the same passing up around a central air-tube, having lateral openings so as to form an argand burner. A burner of this general character is shown in figs. 1 and 2, in which—

*a* is the base, to screw to the reservoir;

*b* is the wick-tube, of a size to pass two wicks laid flatwise together;

*c c* are the wick-raisers;

*e*, the exterior wick-tube, near the flame;

*d*, the central air-tube, with lateral openings *d'*; and

*f* is the cone, directing the draught and carrying the chimney-holder *g*.

In lamps of this character there is great difficulty in inserting the wicks, because the wicks frequently both pass on one side of the central air-tube, instead of parting and going one on each side, and sometimes the corners of the wick turn back, and cannot be forced through.

In order to avoid these difficulties, I apply my invention, which consists in a dividing-plate, extending down from the air-tube into the wick-tube, so as to guide the wicks and open them, so that they will pass, one on each side of the central air-tube and its lateral openings.

I have shown this plate at *h*, figs. 1 and 2, as extending across the wick-tube, from one edge to the other, in order that the wicks may be separately guided up on opposite sides of the air-tube *d*.

The central portion of this dividing-plate might be dispensed with, but I find the same preferable in the form shown.

My invention is also capable of use with the lamp-burner set forth in the application of A. W. Browne, allowed May 4, 1869, in which a flat wick is employed, the same being folded, and the air to the central tube being admitted at one side only; a burner of this general character being shown in figs. 3 and 4, in which the base and screw *a* are shown as fitted with the wick-tube *b*, rising to the circular tube *e*, around the base of the flame.

*c c* are the wick-raisers, and *d* is the central air-tube, curved downward and sidewise, to form the inlet at *d'*.

My improved dividing-plate *h* is only required at one side of the wick-tube, extending from and below the lateral inlet *d'*, in order to guide the edges and end of the wick, and cause it to pass correctly on each side of the tube *d*.

In this burner, I make the conical enclosure *k* to extend down and unite with the base *a*, and around the lower end of said cone the air-inlet holes *5 5* are introduced, that allow the passage of air to the tube *d*.

The chimney-holder *g* is made removable, and is fitted with a conical sleeve, *g'*, to set upon the outside of the cone *k*, and sustain the chimney and holder, but allow these to be removed with great ease to give access to the flame for trimming or lighting.

These improvements remove objections heretofore found to exist with this class of burners, and give to the argand lamp every facility heretofore possessed by the flat-wick lamps.

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

1. The dividing-plate *h*, introduced within the wick-tube, and acting to separate and guide the wick or wicks, substantially as set forth.

2. The chimney-holder *g* and tapering sleeve *g'*, in combination with the cone *k*, to allow the chimney and holder to be removed from the argand burner, substantially as set forth.

In witness whereof, I have hereunto set my signature, this 21st day of June, A. D. 1869.

THOS. ADAMS.

Witnesses:

CHAS. H. SMITH,

GEO. T. PINCKNEY.