WYGANT & VANDERBECK.

Lamp Burner.

No. 43,879. Patented Aug. 16, 1864.

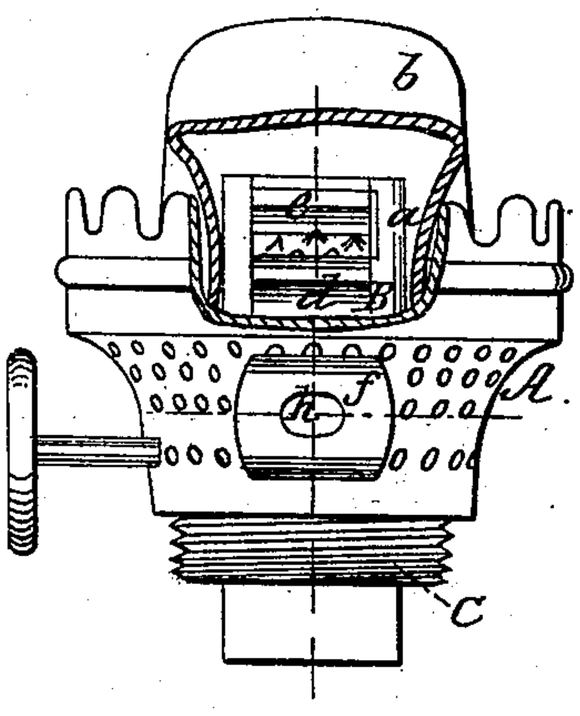


Fig. 2.

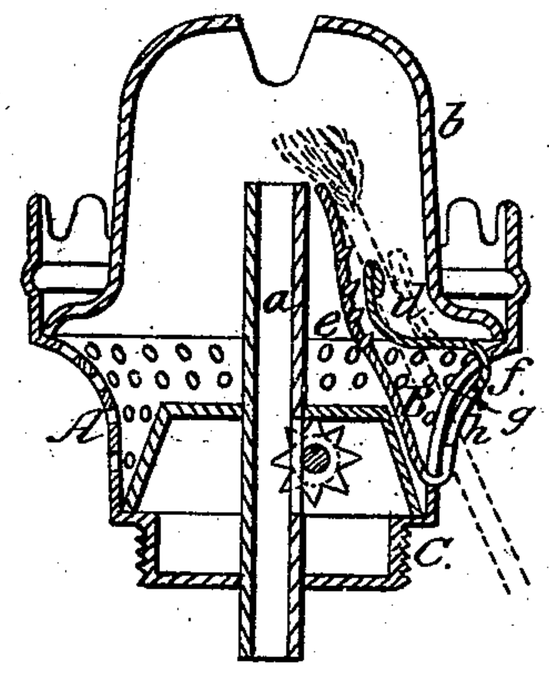
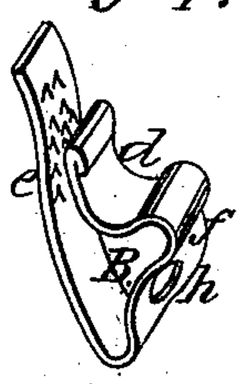


Fig. 3.

Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN H. WYGANT AND CHARLES W. VANDERBECK, OF HACENSACK, NEW JERSEY.

IMPROVEMENT IN LAMP-BURNERS.

Specification forming part of Letters Patent No. **43,879**, dated August 16, 1864.

To all whom it may concern:

Be it known that we, JOHN H. WYGANT and CHARLES L. VANDERBECK, of Hackensack, in the county of Bergen and State of New Jersey, have invented a new and useful Improvement in Lamp-Burners; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable any person skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an external view of a lamp-burner, partly in section, and having our invention applied to it; Fig. 2, a vertical central section of the same, taken in the line *x x*, Fig. 1; Fig. 3, a horizontal section of a portion of the same, taken in the line *y y*, Fig. 1; Fig. 4, a detached perspective view of our invention.

Similar letters of reference indicate the same parts.

This invention consists in applying to lamp-burners, such as are employed for burning coal-oil with a draft-chimney, a match igniting device, arranged in such a manner that the match may, without disturbing the draft-chimney or any part of the burner, be thrust into the burner, ignited, and brought in contact with the top of the wick, so that the same may be lighted.

A represents a lamp-burner, which may be constructed like those usually employed for burning coal-oil, *a* being the wick-tube, *b* the cone, and *c* the screw which screws into the collar or socket of the lamp. These parts, being of ordinary construction, do not require a minute description.

B represents a strip of sheet metal, which is doubled or bent in loop form, so that the end of one part, *d*, will quite closely approach the other part, *e*, just below its end, as shown clearly in Fig. 4. This sheet-metal strip thus bent constitutes the match-igniting device, and it is fitted within the burner, the portion *f* of the plate at the bend being in contact with the outer side of the burner, and secured to it by having the parts *d e* pass through a hole, *g*, in the side of the burner, and the portion *f* at the bend made rather broader, so that it cannot pass through said hole, but bend snugly in it. Other modes of fastening, however, may be devised. The part *e* of the bent strip B has such an inclined position that it will guide a match to the top of the wick-tube, and a hole, *h*, is made in the bend *f* to admit of a match being thrust through it into the burner and between the two parts *d e*, and the end of *d*, in consequence of being quite close to *e*, will cause the match to be ignited as it is forced between the two parts *d e*, the lighted end of the match coming in contact with the upper end of the wick and lighting it. (See Fig. 2.) The part *e* of B may be corrugated, in order to facilitate lighting of the match.

Thus, by this simple arrangement the wick may be lighted without removing the chimney from the burner, and the parts *d e* may be bent nearer together or farther apart as may be required to suit the size of the matches employed.

Having thus described our invention, what we wish it understood is that we do not claim making a hole in the side of the burner for the insertion of a match, nor do we claim a friction device inside; but

What we do claim as new, and desire to secure by Letters Patent, is—

The employment or use, in connection with a lamp-burner provided with a draft-chimney, of a match-igniting device so constructed and attached to the burner and arranged in such relation with the wick-tube thereof that a friction-match may be inserted into the burner from its outer side by hand and be ignited, and by such insertion be brought in contact with the wick to light the same, substantially as herein set forth.

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Witnesses:
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