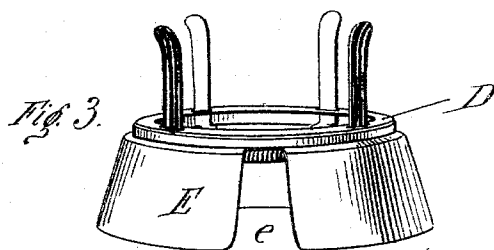
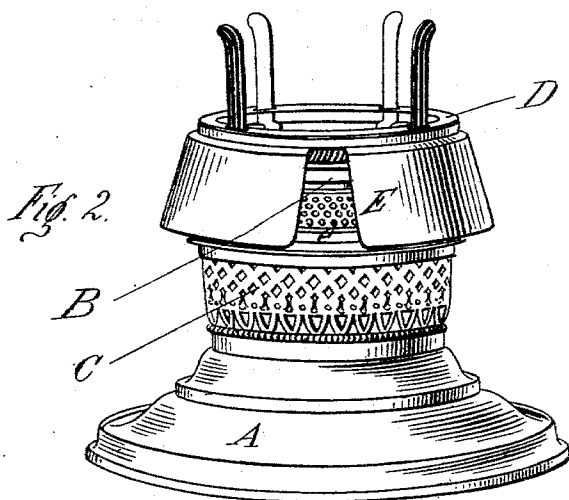
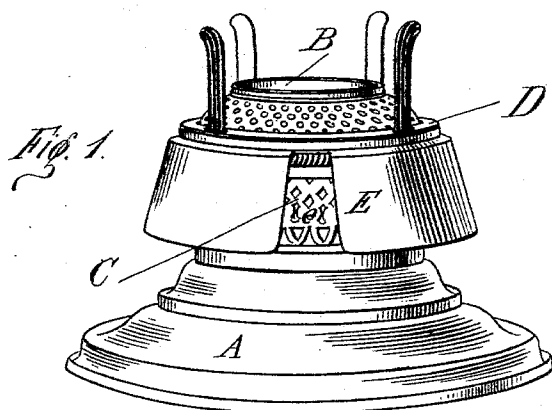


(No Model.)

F. T. WILLIAMS.
LAMP BURNER.

No. 571,631.

Patented Nov. 17, 1896.



WITNESSES:

W. H. Brown
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BY

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UNITED STATES PATENT OFFICE.

FRANK THEODORE WILLIAMS, OF MERIDEN, CONNECTICUT, ASSIGNOR TO
THE EDWARD MILLER & COMPANY, OF SAME PLACE.

LAMP-BURNER.

SPECIFICATION forming part of Letters Patent No. 571,631, dated November 17, 1896.

Application filed November 25, 1895. Serial No. 570,085. (No model.)

To all whom it may concern:

Be it known that I, FRANK THEODORE WILLIAMS, a citizen of the United States, residing at Meriden, New Haven county, Connecticut,
5 have invented a new and useful Improvement in Lamp-Burners, of which the following is a specification.

My invention relates chiefly to that class of burners known as "gallery-lift" burners,
10 and is intended to render the lighting of the flame in such burners easier and more certain.

In the accompanying drawings, Figure 1 represents in perspective so much of an Argand lamp-burner as is necessary to show my device, the burner being in its operative or ordinary position. Fig. 2, also in perspective, shows the burner in position for lighting. Fig. 3 shows the device attached to the
20 chimney-gallery only.

The same letters refer to like parts in the several views.

A designates a lamp-top; B, an outer wick-tube; C, a perforate skirt; D, a chimney-gallery; E, a wind-guard provided with opening *e*.
25

In the example of my invention illustrated in the drawings the lamp-top A and wick-tube B are of any desired construction. The
30 perforate skirt C and vertically-adjustable chimney-gallery D as here shown are similar to the corresponding parts of the device shown in United States Patent No. 499,273, granted on my application dated June 13, 1893.
35 The wind-guard E is imperforate and may be of substantially cylindric or somewhat conical form, contracted at its upper edge to rest upon and be secured to the outer flange of the gallery D. An opening *e* in the guard E is here shown as a slot. The function of this
40 opening will hereinafter appear.

My invention is particularly adapted to Argand burners provided with gallery-lifts when they are used in street or ship lanterns
45 or generally where they may be exposed to

wind or strong currents of air. It is found in the practical use of street-lamps that when the gallery, with the chimney resting thereon, is raised for the purpose of lighting the lamp, the wick-surface being entirely exposed to
50 any currents of air that may enter the lantern, the small flame of the match or the just-kindled flame on the wick is very easily and frequently extinguished. To obviate this is the function of my present device. It will
55 be seen by reference to Fig. 2 of the drawings that the imperforate guard E surrounds the otherwise unprotected space between the upper edge of the skirt C and the raised gallery D and acts to cut off all currents of air.
60 The opening *e* in the guard E permits the insertion of a match to the wick.

It is obvious that no particular form of gallery or chimney lift is requisite to my invention, but that it will act efficiently to cover
65 the opening whenever a gallery is raised for lighting a lamp.

What I claim as my invention, and desire to secure by Letters Patent of the United States, is as follows:
70

A lamp-burner having a fixed and substantially vertical skirt surrounding the wick-tube, said skirt being perforated to admit air for feeding the burner, a vertically-sliding chimney-gallery mounted on said skirt, an
75 imperforate wind-guard secured to said gallery and of a materially larger diameter than said skirt to provide for the free entrance of air to the burner, said wind-guard being of a width to substantially cover the perforations
80 in the vertical wall of said skirt when in its normal position, and to extend down to the top rim of said skirt when in its elevated position, said guard being also provided with an opening at one side, substantially as described and for the purpose specified.
85

FRANK THEODORE WILLIAMS.

Witnesses:

GEO. L. COOPER,
S. J. ROBY.