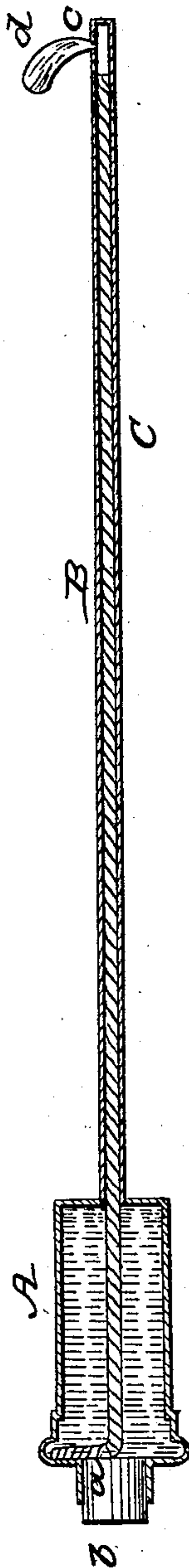


N. ALLEN.

Lamp Lighting Device.

No. 37,378.

Patented Jan'y 13, 1863.



Witnesses
J. W. Corbitt
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UNITED STATES PATENT OFFICE.

NORMAN ALLEN, OF WEST MERIDEN, CONNECTICUT.

IMPROVED LAMP-LIGHTING DEVICE.

Specification forming part of Letters Patent No. 37,378, dated January 13, 1863.

To all whom it may concern:

Be it known that I, NORMAN ALLEN, of West Meriden, in the county of New Haven and State of Connecticut, have invented a new and Improved Lamp-Lighting Device; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, making a part of this specification, said drawing being a longitudinal central section of my invention.

This invention relates to a new and useful device for lighting coal-oil lamps and other lamps which are provided with chimneys, whereby it is rendered unnecessary to remove the chimney in order to light the lamp.

The invention consists in having a tube connected with a reservoir or chamber, which is supplied with alcohol, spirit, gas, or other similar volatile substance, the tube being provided with a wick and perforated near its end, as hereinafter fully shown and described.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

A represents a chamber or receptacle, which may be of cylindrical or other proper form, and provided at one end with an opening, *a*, which is closed by a cork or stopper, *b*.

B is a tube, which may be of any suitable length, and which is attached to the chamber or receptacle A, at the end opposite to that in which the opening *a* is made. The tube B communicates with the chamber A, and a wick C is inserted in the tube B, the former extending nearly or quite the whole length of the latter. The tube B is perforated near its end with a hole, *c*, as shown plainly in the drawing.

The chamber or receptacle A and tube B may be constructed of sheet metal. Ordinary tinned plate will answer the purpose.

The chamber or receptacle A is supplied with alcohol or with burning-fluid, and the wick C becomes saturated therewith and conveys the fluid along to the end of tube B. By inserting the perforated end of the tube B in the flame of a lamp or in a fire the fluid ignites and a small flame, *d*, issues from the perforation *c*. The tube B should be of sufficient length to admit of its being inserted down into the chimney of a lamp, and the flame *d* brought in contact with the wick of the lamp, so that the same may be lighted without removing the chimney.

The wick C, it will be seen, is an important feature of the invention, as it prevents the escape of the fluid from the perforation *c* in the tube B, while at the same time it conducts the fluid, or admits of the passage of the same in sufficient quantity, to the perforation *c* to properly feed or supply the flame *d*.

The device may be constructed at a small cost and will prove to be a very desirable article where coal oil or other chimney lamps are used.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination of the chamber or receptacle A, tube B, and wick C, all arranged, substantially as shown and described, to form a new and improved article for the purpose specified.

NORMAN ALLEN.

Witnesses:

JAS. S. HUGGINS,
GEO. W. ROGERS.