

F. RHIND.
Lamp-Extinguisher.

No. 197,174.

Patented Nov. 13, 1877.

Fig. 1.

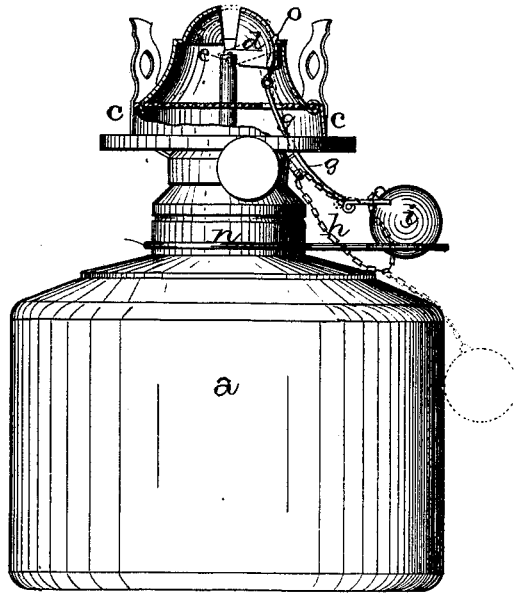
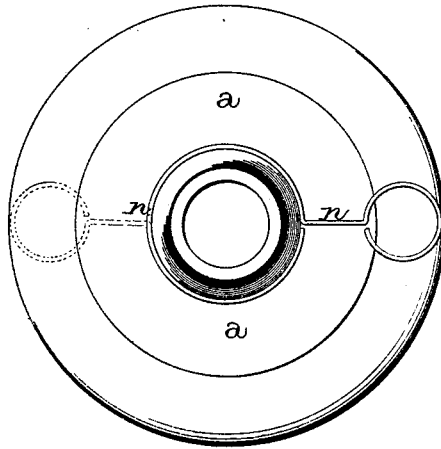


Fig. 2.



WITNESSES:

W. G. Garner
Frank M. Burnham

INVENTOR:

Frank Rhind
per
F. A. Lehmann Atty.

UNITED STATES PATENT OFFICE.

FRANK RHIND, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN LAMP-EXTINGUISHERS.

Specification forming part of Letters Patent No. **197,174**, dated November 13, 1877; application filed November 27, 1876.

To all whom it may concern:

Be it known that I, FRANK RHIND, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Lamp-Extinguishers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to an improvement in lamp-extinguishers; and it consists in making the cone of the lamp serve for extinguishing the flame by making one-half of the cone movable, and attaching thereto a lever, so that it can be operated by hand, and the flame extinguished at any moment desired.

A weight-holder is attached to the lamp instead of to the burner, as heretofore, not only so that it will not project out so far from the burner, but so that, should an ignorant or careless person attempt to unscrew the burner while the lamp is burning, for the purpose of filling the lamp, the weight will be pulled off of its holder and instantly extinguish the flame, all of which will be more fully explained hereinafter.

Figure 1 is a side elevation of my lamp complete. Fig. 2 is a plan view of the weight-supporter.

a represents an ordinary lamp, and *c* a burner, of any suitable construction, having its cap hinged thereto. One-half of the upper part of the cone, just at one side of the slot where the flame passes through, is pivoted to the inside of the cap, upon the pivots *e*. This pivoted part *d* has a curved or bent lever, *g*, secured to its lower edge, which lever projects down through and out one side of the burner, so as to enable any one, by pushing on the lever, to instantly close the pivoted part of the cone over and extinguish the flame. This part of the device is complete in itself as a hand-extinguisher, as it will be seen the lever is always where it can be readily touched, and acts instantly.

By pivoting the part *d* inside of the cap, and leaving it free to move back and forth, in a large number of cases, where the lamp is either dropped or upset, the part *d* will auto-

matically close over the flame and extinguish it, without any other attachment whatever. This part *d* is provided with the stop *o*.

Fastened to the end of the lever *g*, and passing back through an eye on the side of the burner, is the chain or cord *h*, which has its other end fastened to the weight *i*. By passing the chain through the eye, it is perfectly immaterial in which direction the lamp is upset or dropped, as the moment the weight is displaced from its holder it exerts an inward and upward pull on the lever *g*, and thereby forces the part *d* over the flame.

The holder on which the weight *i* is supported is made of wire, and has one large loop for passing down over the neck of the lamp, and a smaller one at its outer end for holding the weight. The loop that fits over the neck clasps it sufficiently tight to keep the holder *n* in any place desired, and yet allows it to be freely turned around to suit the position of the weight. By attaching this holder to the lamp-bowl instead of to the burner, should an attempt be made to unscrew the burner while lighted, for the purpose of filling the lamp, the very act of unscrewing the burner will pull the weight off from its holder and extinguish the flame.

Having thus described my invention, I claim—

1. A flame-extinguisher for lamps, consisting of a pivoted part, *d*, that forms one-half of the cone of the burner, substantially as shown.
2. The combination of the pivoted part *d* with an operating-lever, *g*, substantially as shown and described.
3. The combination of the lever *g*, pivoted part *d*, and a weight attached to the lever by means of a cord or chain, substantially as specified.
4. The combination of the pivoted part *d*, lever *g*, chain *h*, weight *i*, and holder *n*, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand this 11th day of November, 1876.

FRANK RHIND.

Witnesses:

WM. APGAR,
W. M. STONE.