A. & E. WATERMAN.

Lamp-Extinguisher.

No. 163,343. Patented May 18, 1875.

Fig. 1.

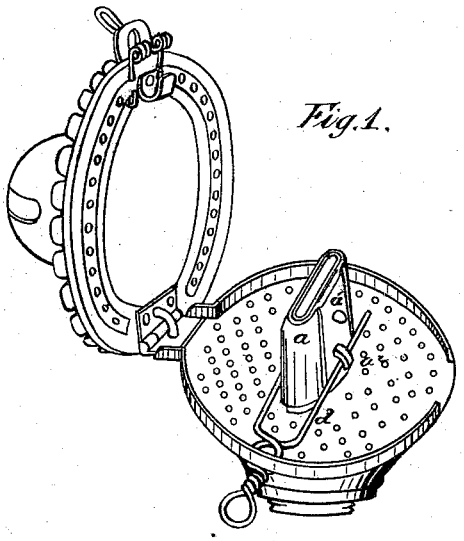
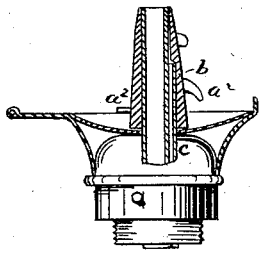


Fig. 2.



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UNITED STATES PATENT OFFICE.

ALBERT WATERMAN AND ELIAS WATERMAN, OF RUTLAND, WISCONSIN.

IMPROVEMENT IN LAMP-EXTINGUISHERS.

Specification forming part of Letters Patent No. **163,343**, dated May 18, 1875; application filed April 17, 1875.

To all whom it may concern:

Be it known that we, ALBERT WATERMAN and ELIAS WATERMAN, of Rutland, in the county of Dane and State of Wisconsin, have invented certain new and useful Improvements in Lamp Extinguishers and Burners; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it pertains to make and use the same, reference being had to the accompanying drawing and to the letters of reference marked thereon, which form a part of this specification.

Our invention relates to improvements in lamp-extinguishers of that class wherein is used a sleeve fitting and sliding upon the wick-tube; and it consists in constructing the sleeve with a side recess for receiving the upper end of the gas-escape pipe, whereby the latter is protected from becoming clogged or stopped, so as to prevent the escape of the gas from the globe or oil-reservoir.

In the drawings, Figure 1 is a perspective, and Fig. 2 a vertical section, of our invention.

a is the sleeve, *b* the recess in the side thereof, and *c* the gas-escape pipe. The sleeve *a*, at its upper end, fits neatly about (but not so closely as to prevent the rising of the gas from the pipe *c*) and flush with the top of the wick-tube. It is furnished with the stop a^1, which, when raised, strikes against the dome of the burner, and prevents it from being thrown entirely off the tube, and is provided, further, with the projections a^2, under which the arms of the operating-lever pass. The recess *b* is formed by an enlargement of the under part of the sleeve. It extends upward about half the length of the sleeve, and so as to fit neatly about and over, but not close, the escape-pipe *c*. The pipe *c* connects with the oil-reservoir or globe, and extends up along the wick-tube, about half the length of the latter above the rim or disk. The gas from the oil freely escapes and passes to the flame between the tube and the sleeve. The escape-pipe is protected from any portions of charred wick that may become detached, or from any other obstructing substance, so that it is at all times preserved in perfect working order. *d* is the operating-lever. It is pivoted or otherwise suitably secured to the rim or disk of the burner. It is made forked, so as to embrace the sleeve and thereby lift the latter vertically. The arms pass under the projections a^2. By pressing on the outer end thereof the sleeve will be raised above the tube and the lamp put out.

In case of accidental turning over of the lamp, the sleeve, of its own gravity, will be thrown outward till the stop a^1 strikes the dome.

Having described our invention, what we claim, and desire to secure by Letters Patent, is—

In a lamp-extinguisher, the sleeve *a*, constructed with the recess *b*, as and for the purpose set forth.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

ALBERT WATERMAN.
ELIAS WATERMAN.

Witnesses:
HOMER B. RICHARDS,
WILLIAM WALLACE FLINT.