

G. F. EDHOLM.

Safety Extinguisher for Lamps.

No. 163,466.

Patented May 18, 1875.

Fig. 1

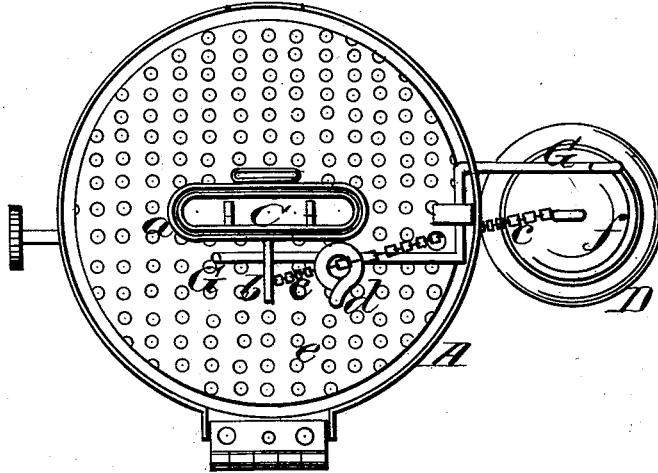
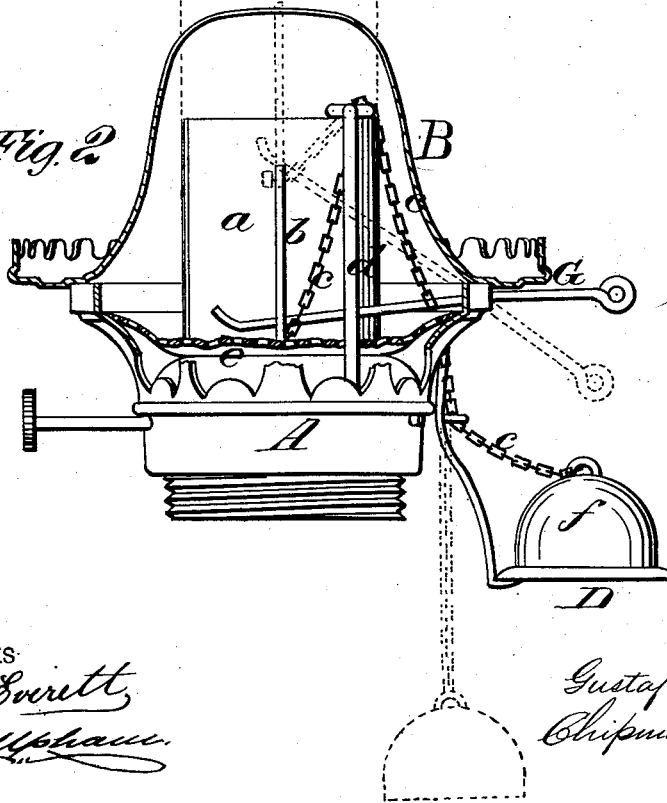


Fig. 2



WITNESSES:

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INVENTOR.

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UNITED STATES PATENT OFFICE.

GUSTAF F. EDHOLM, OF LAKE CITY, MINNESOTA.

IMPROVEMENT IN SAFETY-EXTINGUISHERS FOR LAMPS.

Specification forming part of Letters Patent No. **163,466**, dated May 18, 1875; application filed January 23, 1875.

To all whom it may concern:

Be it known that I, GUSTAF F. EDHOLM, of Lake City, in the county of Wabasha and State of Minnesota, have invented a new and valuable Improvement in Lamp-Extinguishers; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a plan view of my device, and Fig. 2 is a vertical sectional view of the same.

This invention has relation to means for automatically extinguishing the flame of a lamp should the latter be upset; and it consists in connecting the extinguishing-tube to the weight which raises it when the lamp is upset by means of a chain, which is allowed to play freely through an eye on the upper end of a standard inside of the burner-cap, as will be understood from the following description:

In the annexed drawings, A designates the body of the burner, and B the burner-cone and chimney-gallery, which parts may be constructed in the usual well-known manner. C designates the burner-tube, on which is loosely applied an extinguishing-tube, *a*, as described in my Letters Patent numbered 157,503. This tube *a* is constructed with a fin, *b*, on one side of it, to which one end of a chain, *c*, is attached. Chain *c* is passed through a pulley-eye formed on the upper end of a standard, *d*, rising from and secured to the body of the burner. The chain *c* is carried down through a perforated

diaphragm, *e*, and attached to a weight, *f*. This weight *f* has a concave bottom, which receives a convex elevation formed on a shelf, D, when the weight is resting on the latter. G designates a lever, one end of which is exposed outside of the body A of the burner, and the other end passes loosely through the fin *b* on the tube *a*. This lever is used for raising the tube *a* and extinguishing the flame by hand.

When the weight *f* is supported upon the shelf D the tube *a* will rest upon the diaphragm *e*; but should the lamp upset or be unduly tilted, the weight *f* will slip from its shelf and cause the tube *a* to extinguish the flame.

I am well aware that it is not new to raise a sliding-tube extinguisher by means of a lever; therefore I do not claim this.

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

In a lamp-burner, the rigid standard *d* within the burner, having a loop at its upper end, in combination with the slide-tube extinguisher *a*, its fin *b*, and the weight-chain *c*, passing through the floor of the burner and the standard-loop to the fin of the slide-tube, all arranged and operated substantially as specified.

In testimony that I claim the above, I have hereunto subscribed my name in the presence of two witnesses.

GUSTAF F. EDHOLM.

Witnesses:

ADELBERT WELLS,
A. E. EDHOLM.