

(No Model.)

W. H. BALDWIN.
LAMP EXTINGUISHER.

No. 257,838.

Patented May 16, 1882.

Fig. 1.

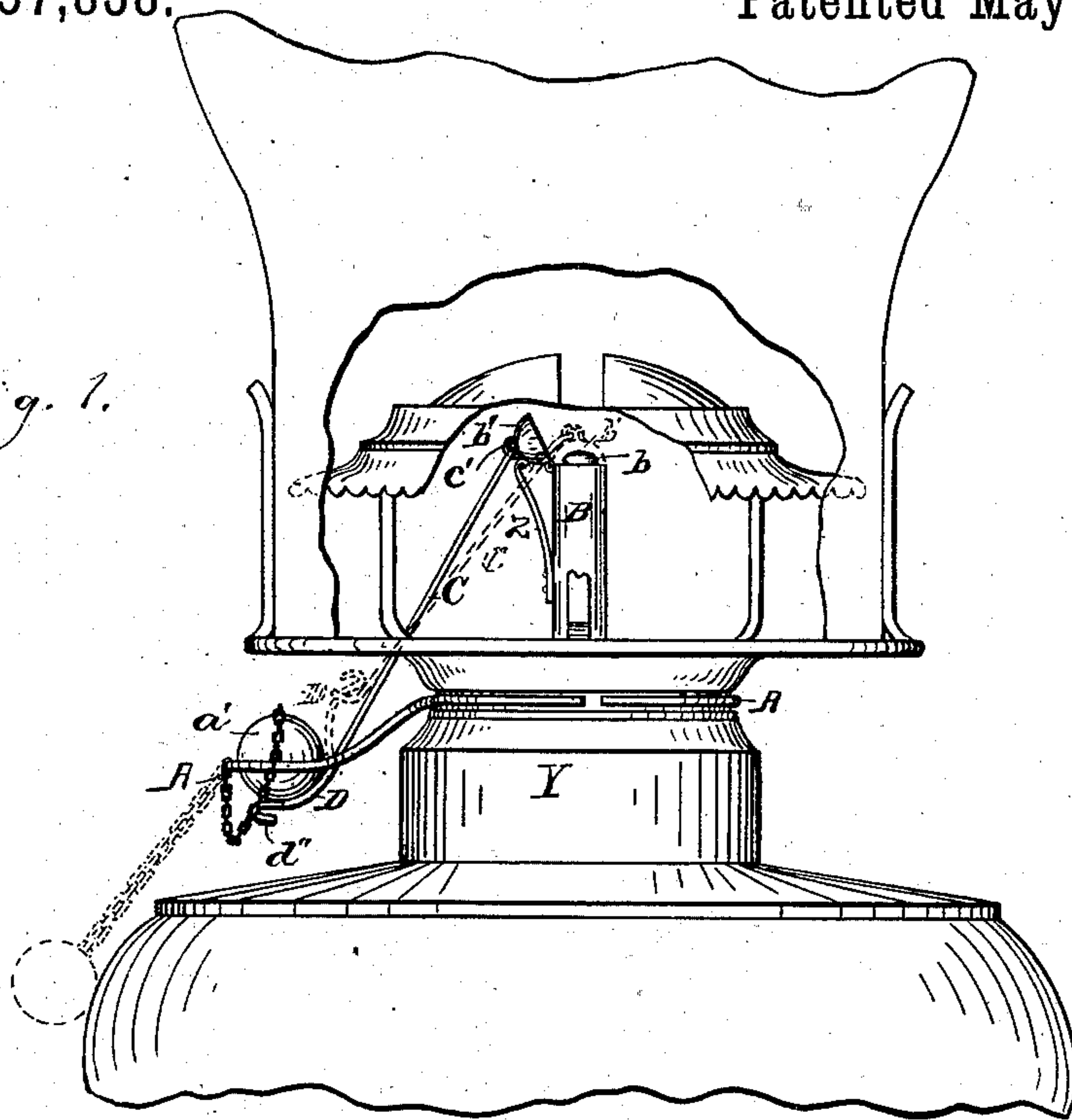


Fig. 2.

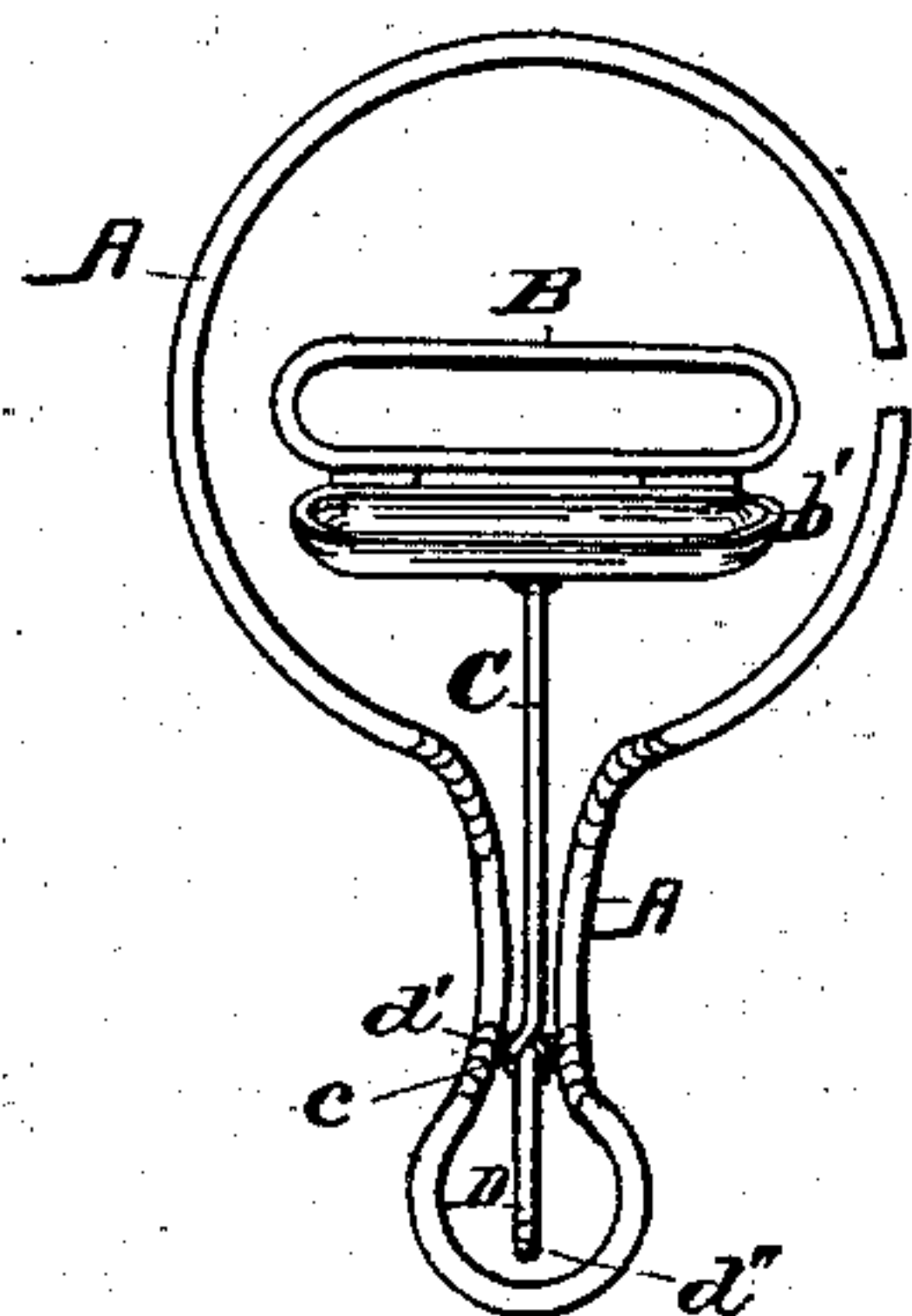


Fig. 4.

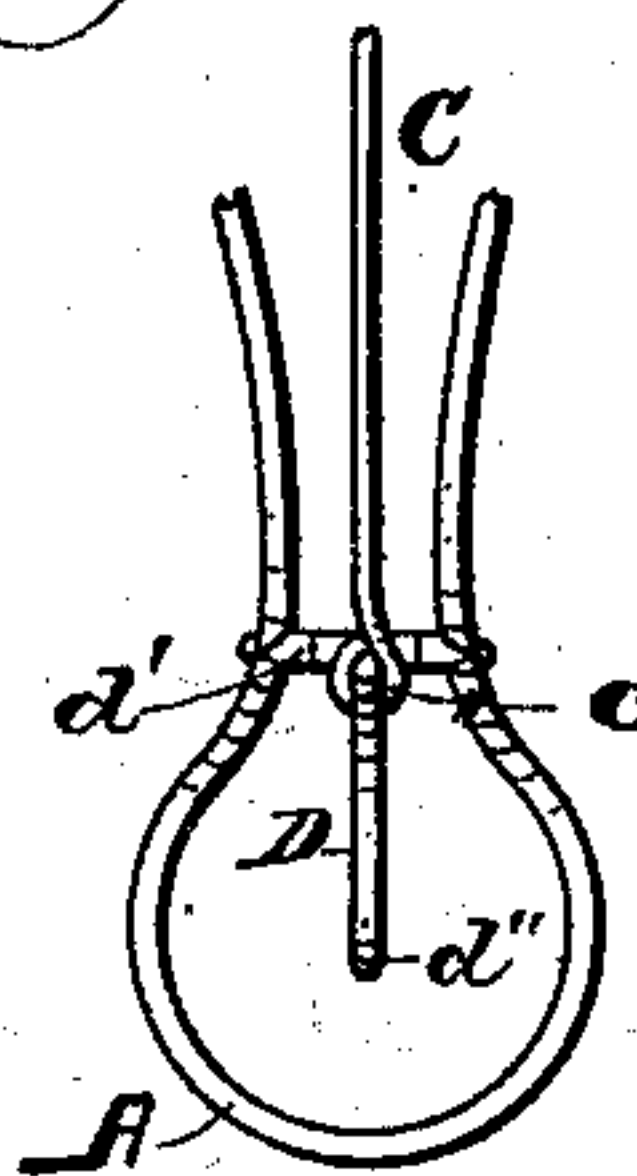
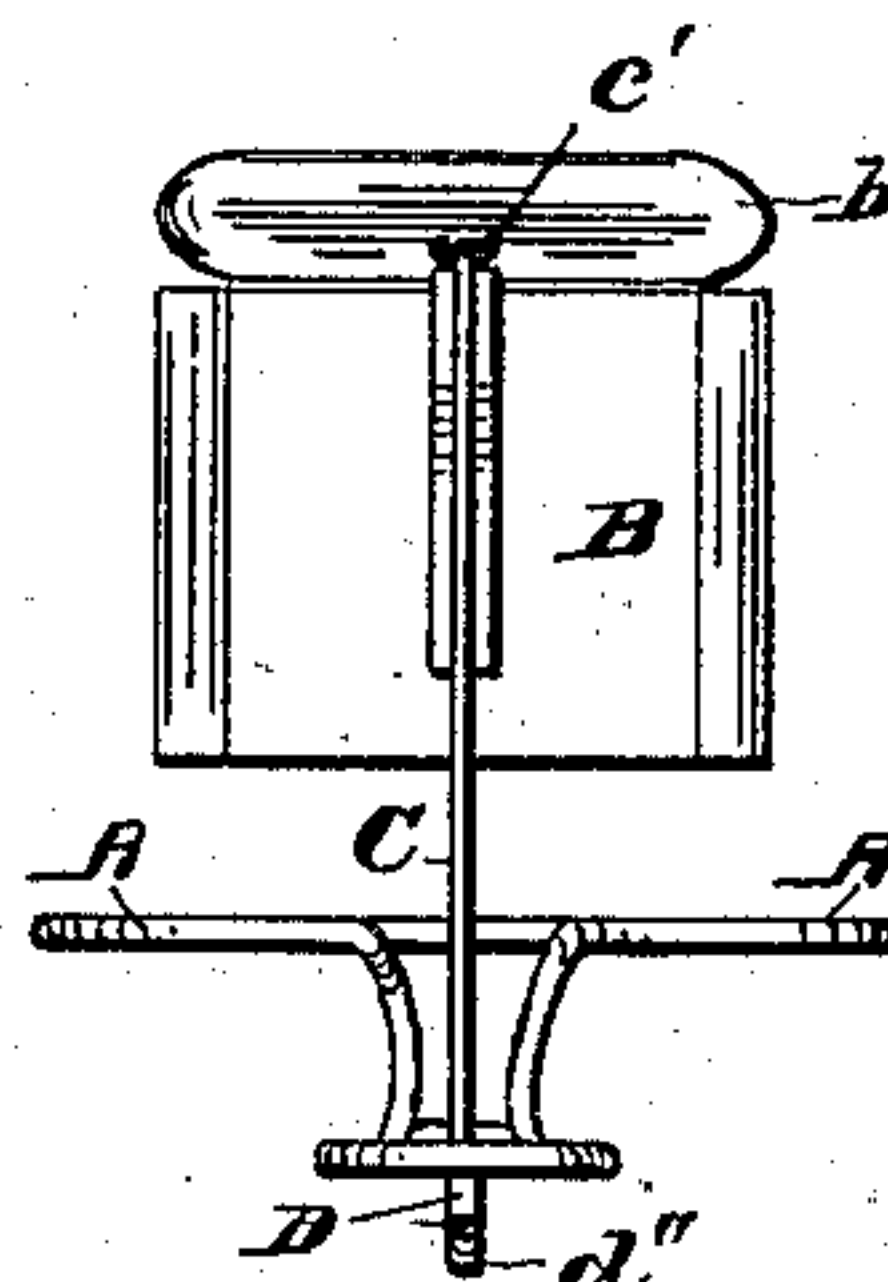


Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

WILLIAM H. BALDWIN, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-HALF
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LAMP-EXTINGUISHER.

SPECIFICATION forming part of Letters Patent No. 257,838, dated May 16, 1882.

Application filed April 3, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. BALDWIN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Lamp-Extinguishers, of which the following is a specification.

My invention relates to automatic lamp-extinguishers, by which I provide for and avert the danger existing in the overturning of fluid-lamps while in use and the consequent igniting of the fluid itself.

Figure 1 is a side elevation of a lamp with my device attached and in position. Fig. 2 is a top view of automatic extinguisher detached from lamp. Fig. 3 is a front view of same. Fig. 4 is a detailed view of part of the extinguisher.

Similar letters refer to similar parts throughout.

A is a narrow band of metal or large wire, shaped to clasp and rigidly adhere to the base of a lamp-burner, Y, and drawing to a narrow neck where it leaves the lamp, and again expanding in a circle of a suitable size to receive and hold the small metallic weight a' , which fits loosely into the circle thus formed.

B is a metallic sleeve, open or closed, but rigidly adherent to the wick-tube, and armed with the spring Z, impinging upon the hinged cap or extinguisher b' , forcing the same upon the top of the wick-tube and burning wick and extinguishing the same. The extinguisher b' is held back from the flame by tension of the wire C, which is looped to the extinguisher b' , and which terminates in a loop, c , slipped over the tongue D and drawn against the shoulder of the tongue D at its intersection with the cross-bar d' , which cross-bar is soldered to the sides of the wire A at its narrow part. The tongue D revolves upon the cross-bar d' , and operates freely within the circle A, exterior to the lamp-burner, at right angles to its plane. The weight a' , when in position, operates by gravity to hold

the tongue D below the periphery of the circle A, exterior to the lamp-burner; but when the lamp is overturned the weight a' is dislodged and falls by gravity, and the pressure of the spring Z is left free to act upon the extinguisher b' , and the tongue D is rotated toward the lamp, allowing the looped end c of the wire C to slip freely along the tongue D to its hooked end d'' , and the lamp is thus extinguished. Similar results follow when the weight a' is purposely removed, and the flame may be thus extinguished at any time when desired in ordinary use.

I am aware that the use of a weight operating by the power of gravity in various methods to extinguish a fluid-lamp when the same is upset is old and familiar, and I do not claim anything on account thereof.

I am likewise aware of the Patent No. 157,503, and of the workings thereof and the claim made therein, and I do not claim any element or feature of that patent or invention.

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

1. In an automatic lamp-extinguisher, the combination of the metallic sleeve B, the extinguisher b' , the spring Z, the wire C, the tongue D, and the weight a' , constructed and arranged as herein described and shown.

2. An automatic lamp-extinguisher, b' , operated by the weight a' , the tongue D, the wire C, and the spring Z, substantially as set forth and described above.

3. An automatic lamp-extinguisher, held in reserve when the lamp is in use by the combination of the wire C, the tongue D, and the weight a' , and caused to move upon the flame, when an exigency arrives, by the joint action of the spring Z, the tongue D, and the wire C, substantially as set forth above.

WILLIAM H. BALDWIN.

Witnesses:

R. H. BARNARD,

WM. H. RICHARDSON.