

W. G. Ruge. Lamp Extinguisher.

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PATENTED AUG 22 1871

Fig. 1.

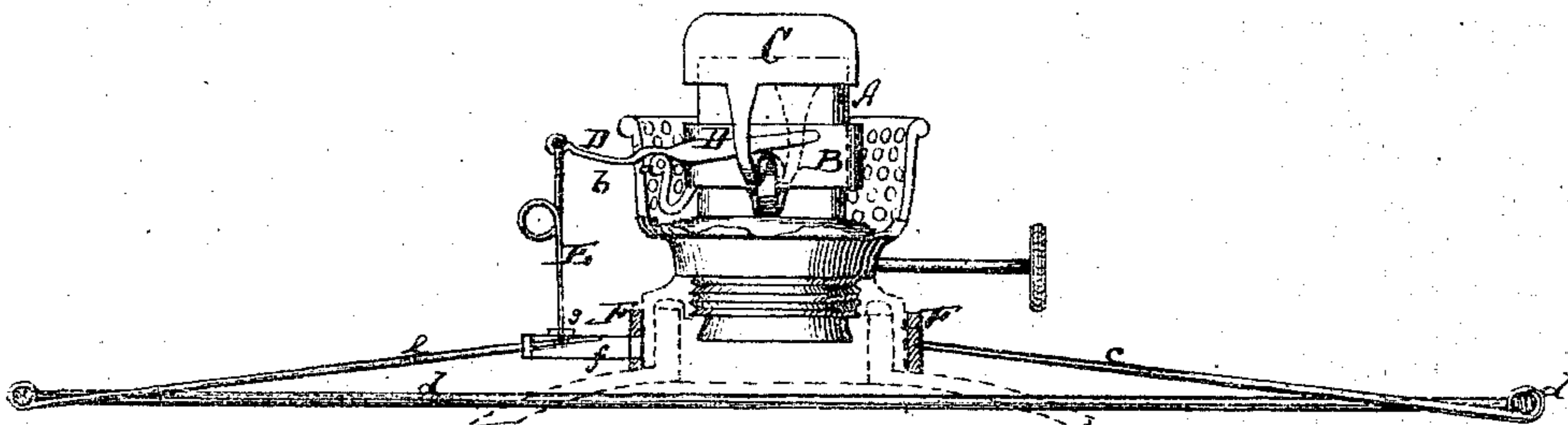


Fig. 2.

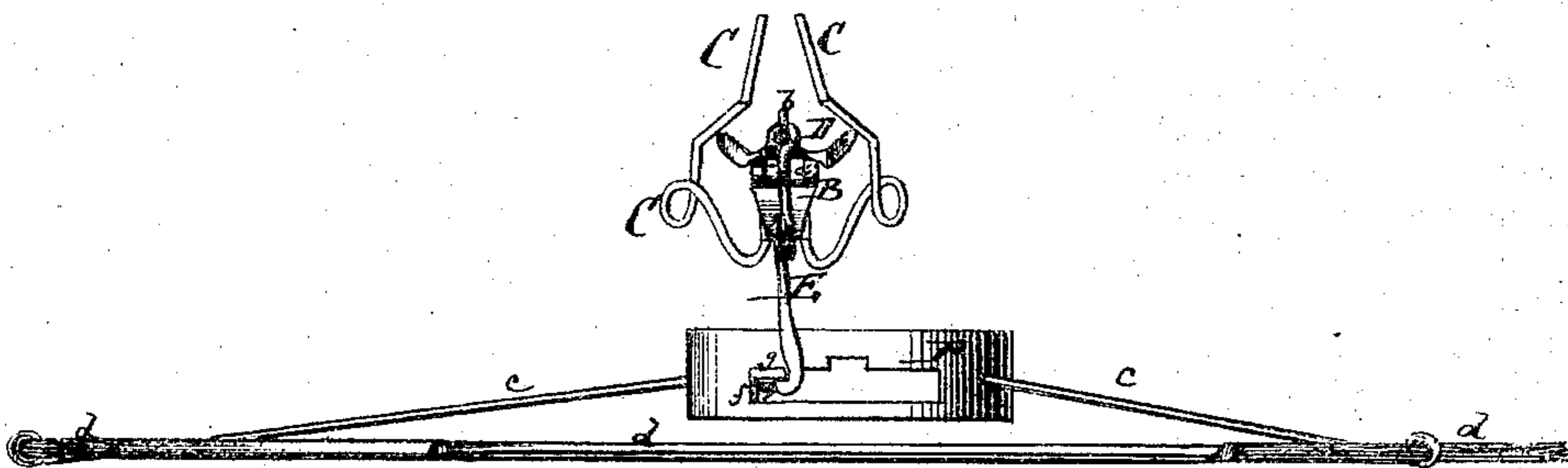
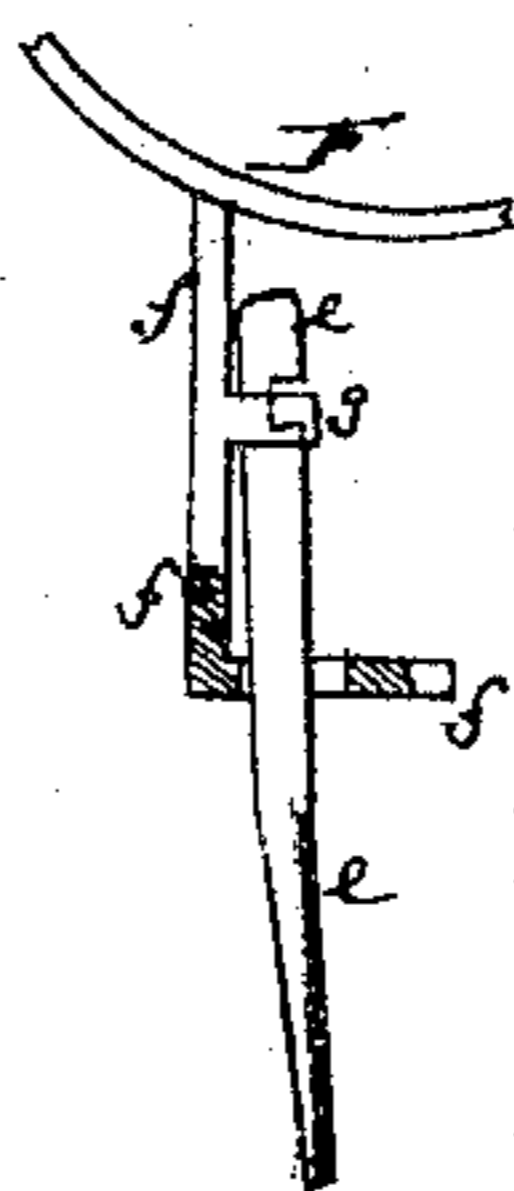


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

WILLIAM G. RUGE, OF HOLSTEIN, MISSOURI.

IMPROVEMENT IN LAMP-EXTINGUISHERS.

Specification forming part of Letters Patent No. 118,280, dated August 22, 1871.

To all whom it may concern:

Be it known that I, WILLIAM G. RUGE, of Holstein, in the county of Warren and State of Missouri, have invented a new and Improved Lamp-Extinguisher; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 represents a side view, partly in section, of my improved lamp-extinguisher. Fig. 2 is an end view of the same. Fig. 3 is a detail top view of part of the same.

Similar letters of reference indicate corresponding parts.

The careless handling and upsetting of kerosene-lamps is the most common cause of accidents from explosion and consequent conflagrations. I intend to prevent such explosions by the application, to the lamp-burners, of a device which will immediately extinguish the flame on the wick if the lamp is upset, shaken, or struck.

My invention consists in the application, to the wick-tube, of a pair of spring-jaws, which will close over the wick and extinguish the flame unless they are held apart by a hook-lug and catch provided for that purpose. The hook is easily disengaged by a disturbance of the lamp, and will in that case release the jaws and let them extinguish the flame.

A in the drawing represents the wick-tube of a suitable burner. B is a sleeve fitted around the wick-tube, and carrying at the sides a pair of spring-jaws, C C, which have the tendency to close above the wick-tube sufficiently to enable the extinction of the flame. To one end of the sleeve B is pivoted, at *a*, a fork, D, whose prongs

enter between and under the jaws, while its shank *b* projects beyond the side of the burner. A hook, E, is suspended from the outer end of the shank *b*. F is a ring, placed upon the lamp-globe or reservoir below the burner, and firmly clamped or fastened in place. From it project three or more radial wires, *c c*, which, at their outer ends, hold a circular wire spring, *d*. From this spring *d* projects a straight wire, *e*, inwardly through an eye of an arm, *f*, that projects from the outer face of the ring F. The arm *f* has a lug, *g*, and the wire *e* is notched under said lug, as indicated in Fig. 3.

When the lamp is to be lighted the hook E is drawn down and hooked over the lug *g*, so that its lower end will be in the notch of the wire *e*. The prongs of the fork D will thereby be raised against the inclined jaws C to spread them apart and clear the upper end of the wick. Whenever the lamp falls, or is struck or disturbed, the spring *d* will be first touched, and will, by the least displacement of the wire *e*, at once disengage the hook E from the lug *g*, thereby releasing the jaws, so that they extinguish the flame on the wick before an explosion can occur. The notched wire *e* serves thus as a catch by which the hook is disengaged. The ring *d* may, if desired, be also used as a support for a lamp-shade.

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

The spring-jaws C C, combined with the pivoted fork D, hook E, lug *g*, and notched arm *e*, all arranged to constitute a lamp-extinguisher, as set forth.

WILLIAM G. RUGE.

Witnesses:

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