

J. H. PRENTICE.
Lamp Extinguisher.

No. 80,088.

Patented July 21, 1868.

Fig. 1.

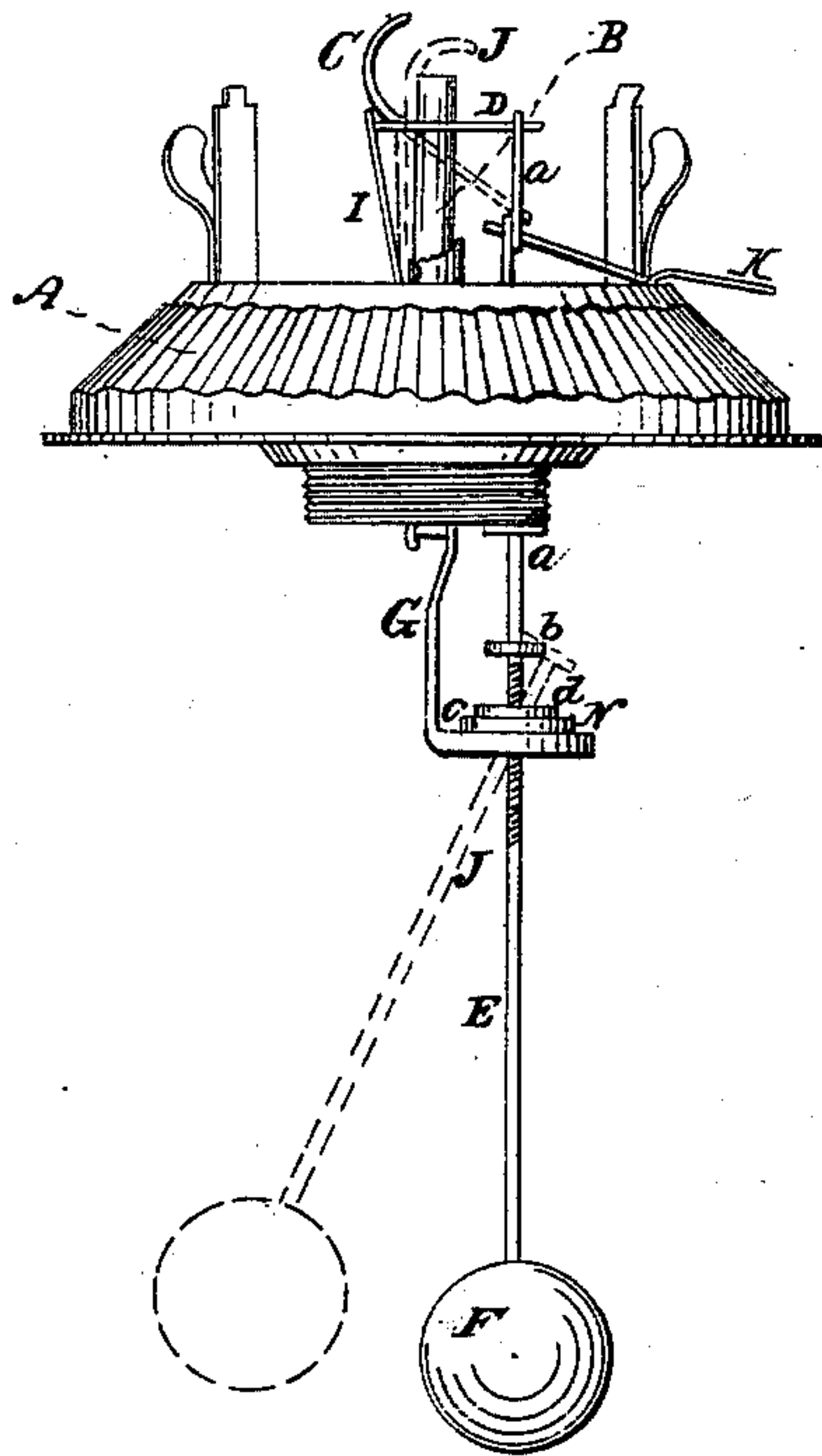


Fig. 2.

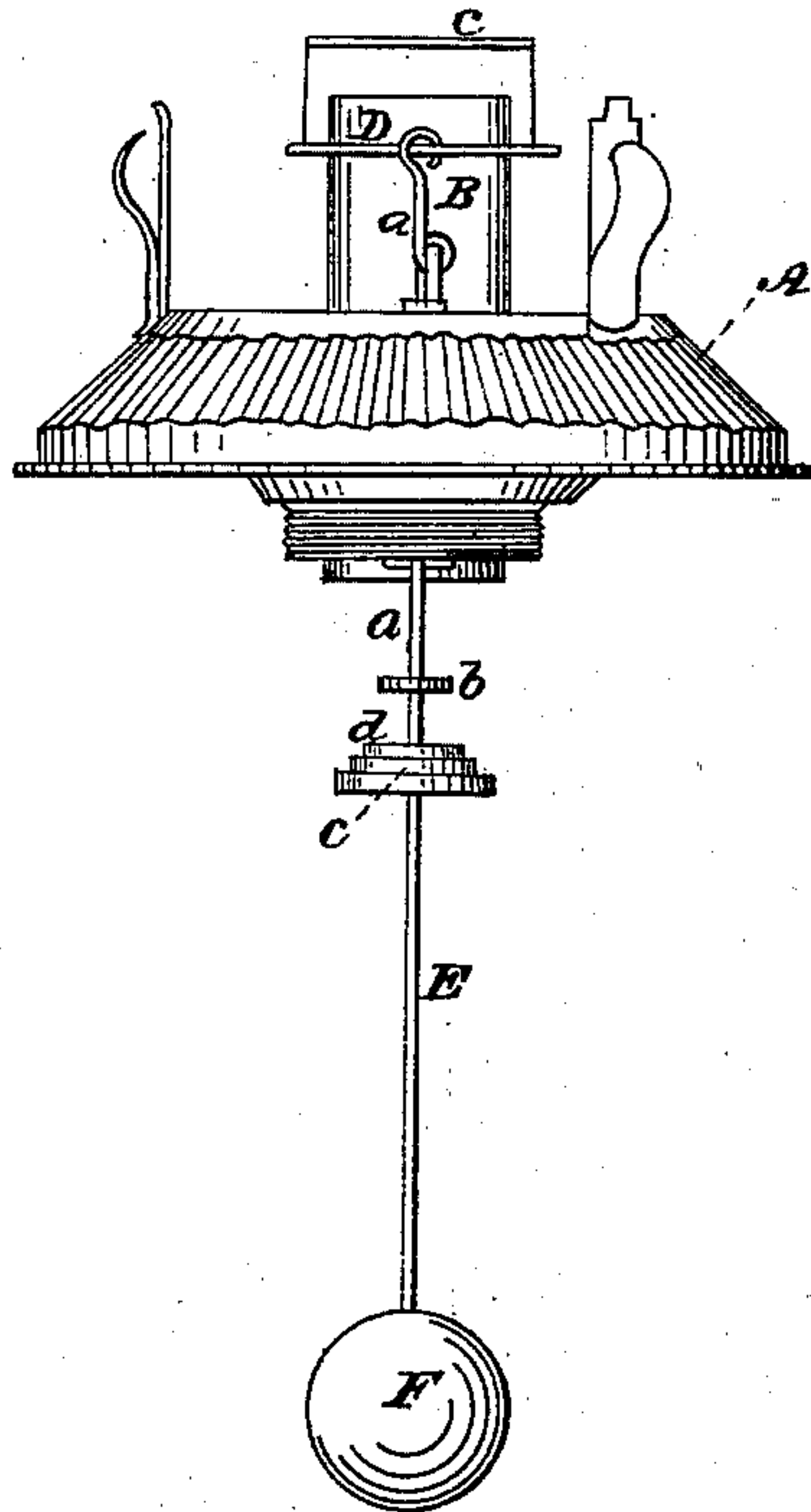
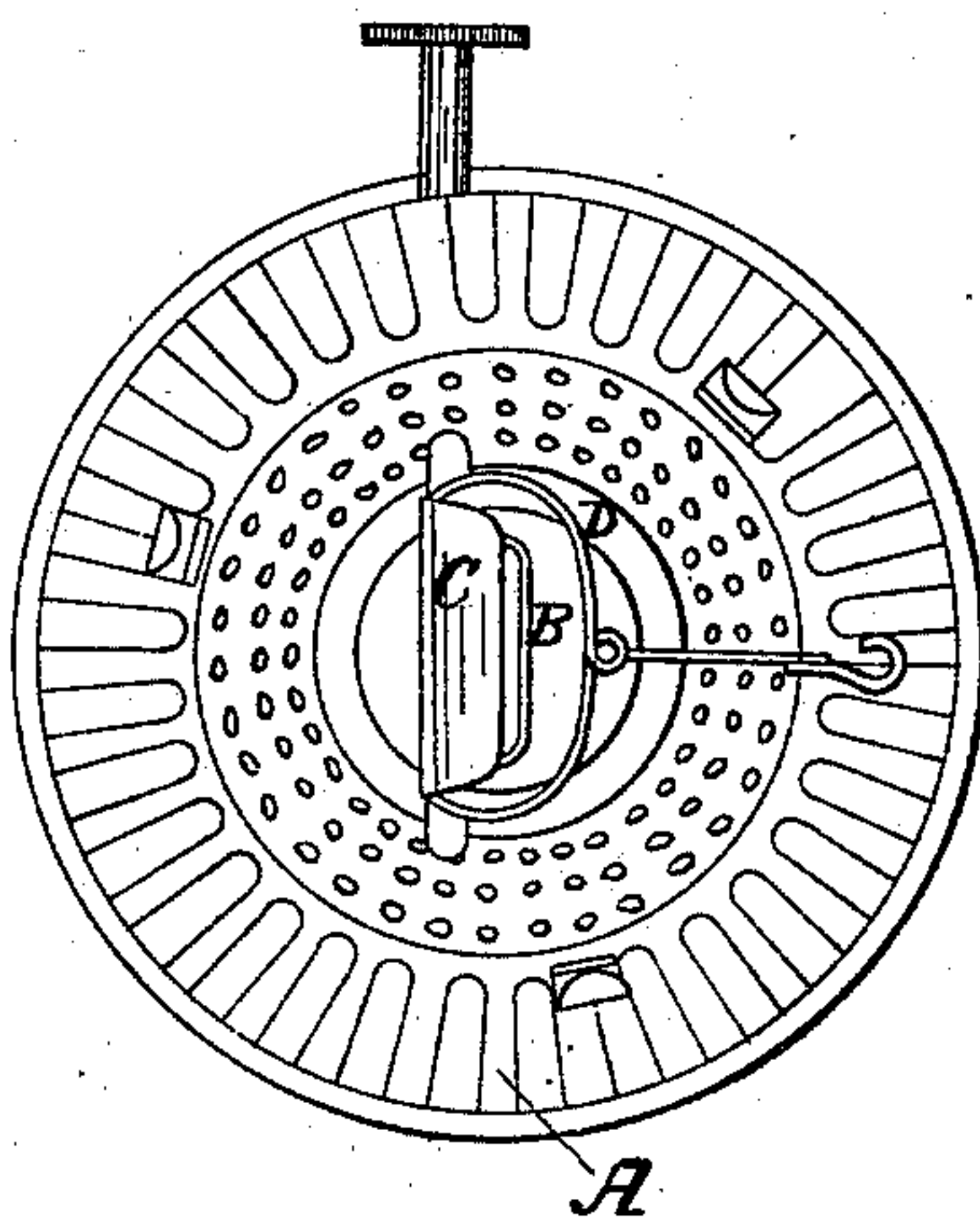


Fig. 3.



Witnesses:

J. H. Burridge
E. E. Waite

Inventor:

James H. Prentice

United States Patent Office.

JAMES H. PRENTICE, OF ASHTABULA, OHIO.

Letters Patent No. 80,088, dated July 21, 1868.

IMPROVEMENT IN LAMP-EXTINGUISHERS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JAMES H. PRENTICE, of Ashtabula, in the county of Ashtabula, and State of Ohio, have invented certain new and useful Improvements in Safety-Lamp Burners; and I do hereby declare that the following is a full and complete description of the same, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a side view.

Figure 2 is a front view.

Figure 3 is a top view.

Like letters of reference refer to like parts in the views.

In the drawing, A represents the burner and cap, which may be constructed in the ordinary way.

B represents a tube for the wick, near the top of which is hinged the cap or extinguisher C, which consists of a curved metallic plate, made to reach from one side to the other of the tube, as shown in figs. 2 and 3. The object of this cap will be stated in the description.

D is a yoke, extending round the tube, and connected to the cap, to which yoke is attached the one end of the rod *a*, the other extending down into the globe of the lamp, said end resting on a disk, *b*.

This disk is secured on the end of the rod E, the other end of said rod being provided with a ball or weight, F, which rod and ball are supported in the following manner:

Extending down from the under side of the tube B is a stay, G, the lower end of which is bent at right angles, and which forms a kind of universal joint, N, the section *d* of said joint, which is screwed on to the rod E, moving in the seat *c*.

I is a spring, to throw the cap over the top of the tube.

The practical use of this improvement is as follows:

When the lamp is in use, the cap and its adjustments are in the position shown in fig. 1. Now, if the lamp, when the cap is in this position, should be tipped or turned to one side, the weight on the end of the rod E will throw the disk from under the rod *a*, and, when thus relieved, the spring I will force the cap down on to the tube, as indicated by the dotted line J, thus extinguishing the flame.

K is a lever for resetting the cap, which is done by depressing the outer end of said lever, thus lifting the rod *a*, and allowing the weight to fall back, bringing the rod E to a vertical position, and the disk under the end of said rod. By this means, the cap is reset, and will again drop over the tube, if the lamp should be pushed or tipped to one side.

By the use of this cap and attachments, the danger caused by fire is avoided, for any jarring or shaking of the lamp will relieve the disk from the rod *a*, as described, and thus throw the cap over the tube, and extinguish the flame before it can reach the oil that will be spilled by the tipping or shaking of the lamp.

The cap C can be thrown farther back from the tube, more or less, as desired, by screwing the rod E up through the section *d* of the joint, which presses the disk against the end of the rod *a*, thus throwing the cap back, as may be desired.

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

1. The pendulum E, disk *b*, in combination with the stem *a*, yoke D, and extinguisher C, substantially as and for the purpose set forth.

2. The screw-pendulum E, stem *a*, and lever K, in combination with the yoke D, extinguisher C, spring I, and tube B, substantially as and for the purpose set forth.

JAMES H. PRENTICE.

Witnesses:

W. H. BURRIDGE,

J. HOLMES.