

(No Model.)

H. L. JEWELL.

LANTERN.

No. 381,557.

Patented Apr. 24, 1888.

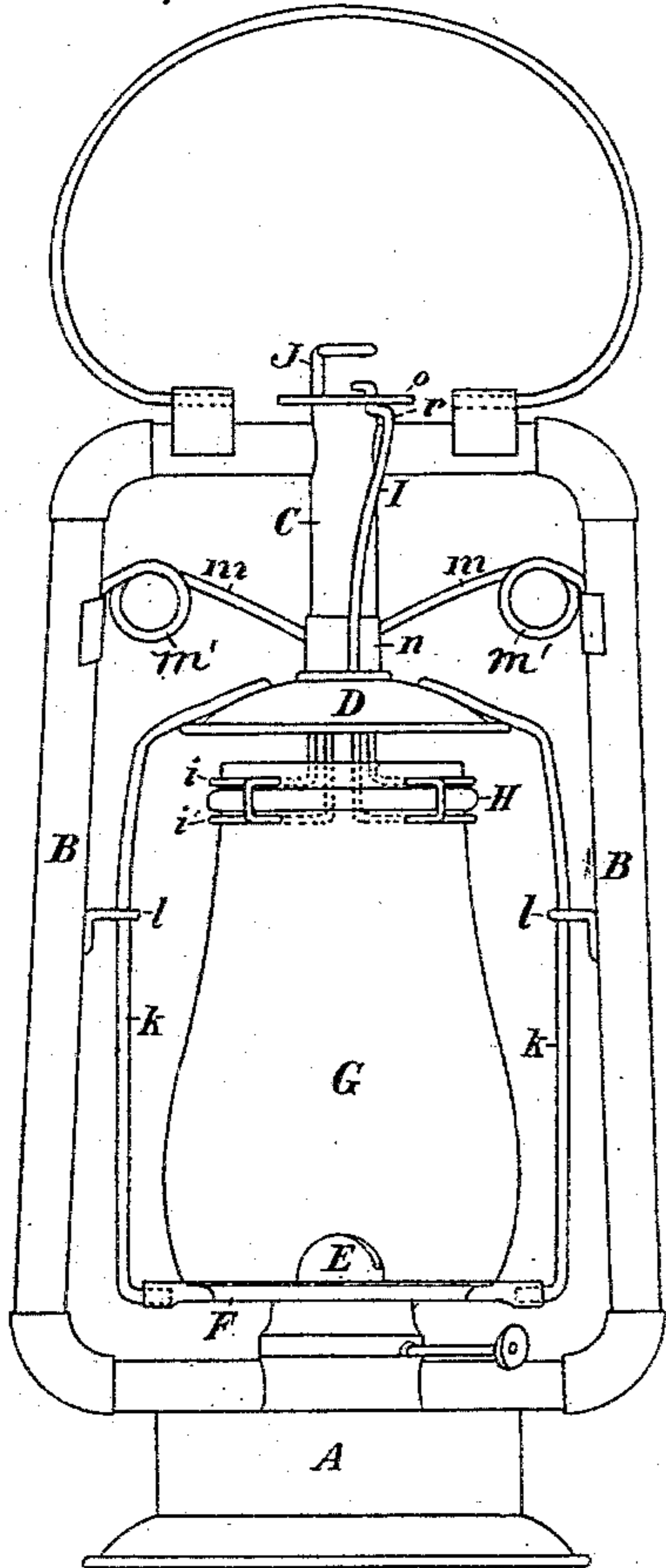


Fig. 1.

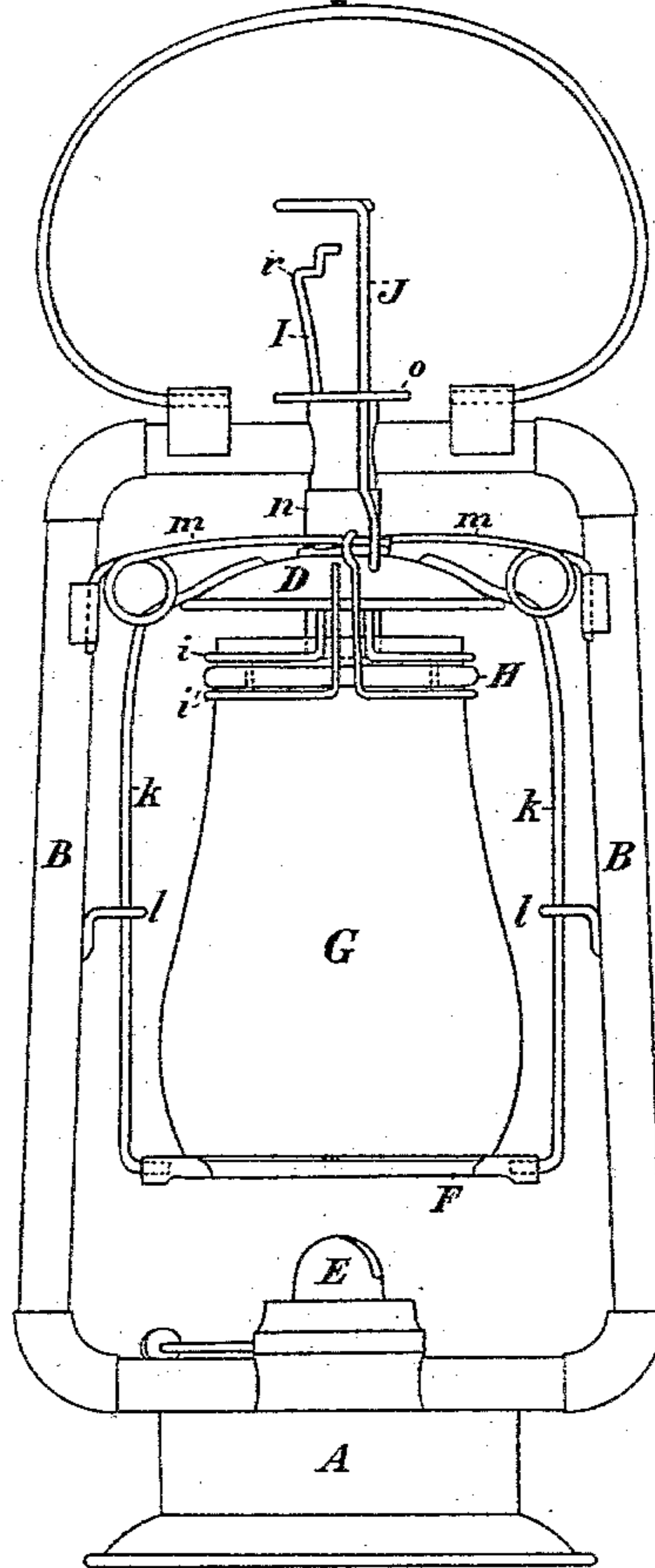


Fig. 2.

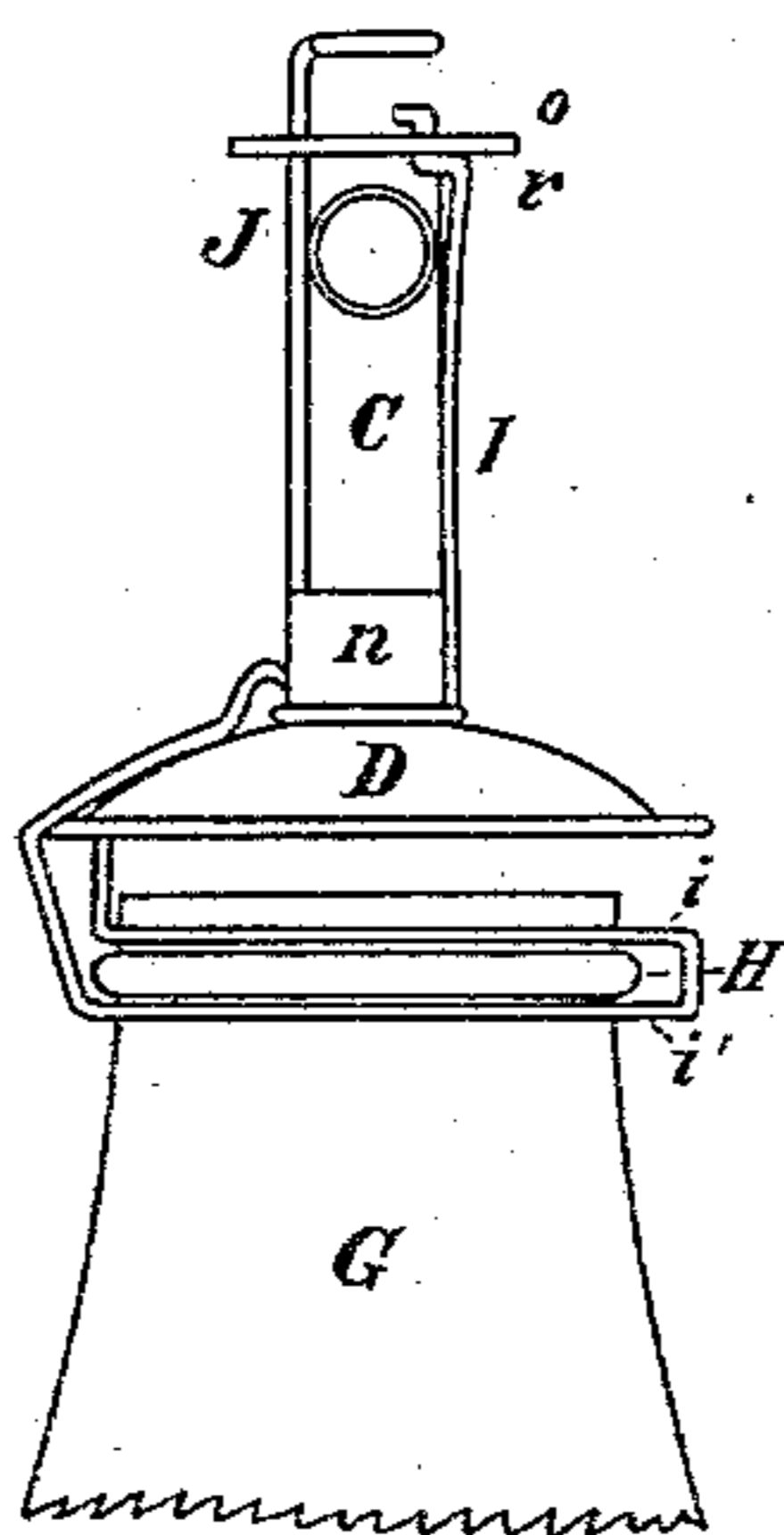


Fig. 3.

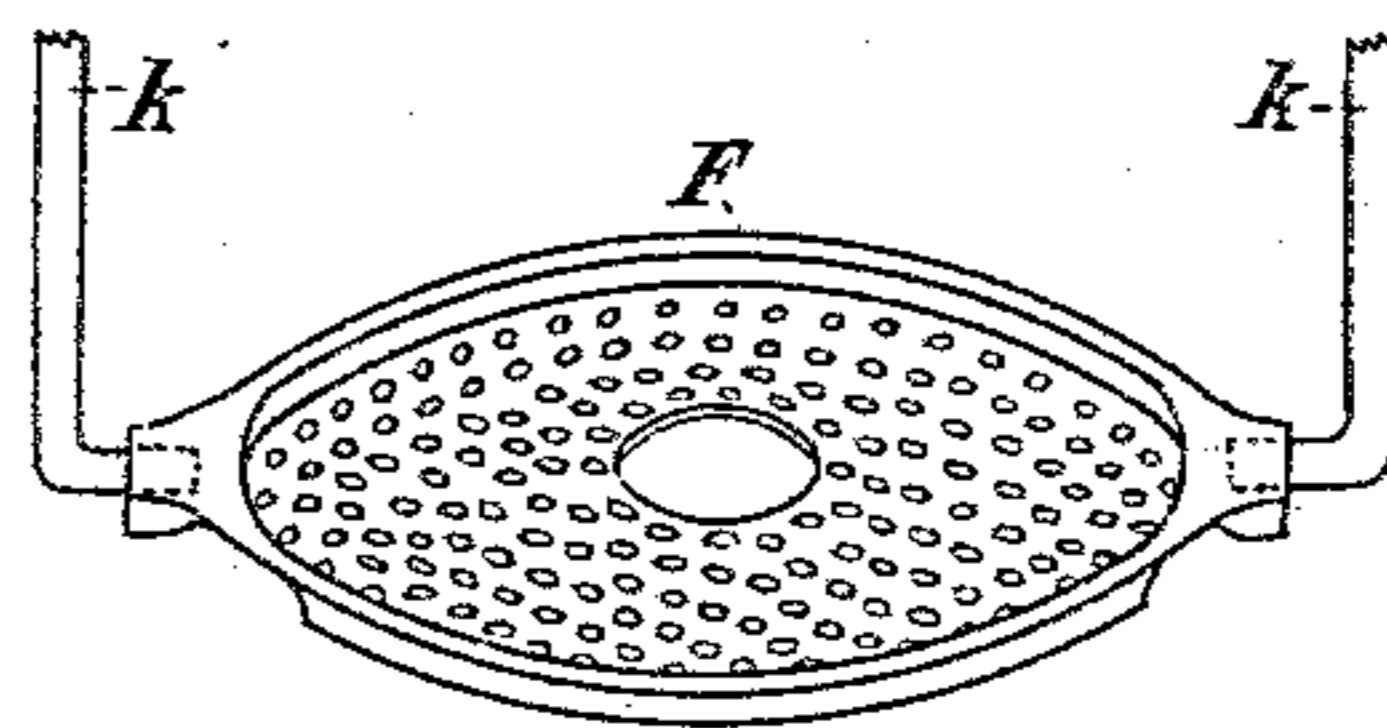


Fig. 4.

Witnesses.
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UNITED STATES PATENT OFFICE.

HARVEY L. JEWELL, OF BANGOR, MAINE.

LANTERN.

SPECIFICATION forming part of Letters Patent No. 381,557, dated April 24, 1888.

Application filed June 27, 1887. Serial No. 242,571. (No model.)

To all whom it may concern:

Be it known that I, HARVEY L. JEWELL, a citizen of the United States, residing at Bangor, in the county of Penobscot and State of Maine, have invented certain new and useful Improvements in Lanterns; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to that class of lanterns in which the globe is carried by a holder, which rises automatically when released, thus affording easy access to the wick for trimming or lighting, the holder meanwhile sustaining the globe in the elevated position to which it has been raised.

My invention is more especially directed to increasing the simplicity of construction and cheapness of the springs which raise the holder, at the same time so arranging them that they operate smoothly and directly without rubbing or friction. In combination with such arrangement of springs, I employ a means of mounting the sliding holder which is peculiarly well adapted for use with the former.

In order to make my invention more clearly understood, I have shown in the accompanying drawings a means for carrying it into effect.

In said drawings, Figure 1 is an elevation of a lantern embodying my invention with the globe and holder down. Fig. 2 is a similar view with said parts raised. Fig. 3 is a side view of the upper part of the globe and holder. Fig. 4 is a view of the tilting-plate for holding the lower part of the globe detached.

Referring to the drawings, A is the base of the lantern, containing the usual oil-reservoir; E, the burner; B, the air-tubes; C, the central draft-tubes. These parts may be of any suitable and preferred construction.

D is the cap, provided, preferably, with a sleeve, *n*, which is fitted to slide vertically on the tube C. Side bars, *k*, are secured to the cap D and descend to a little below the level of the burner, where they turn inward, their ends forming pivots, upon which is hung upon diametrically-opposite bearings the tilting holder-plate F. The latter is provided with a

circumferential flange, within which fits neatly the lower edge of the globe G.

i i' are wires constituting a spring-clasp adapted to fit the upper end of the globe, the two wires lying respectively upon the upper and lower sides of a bead, H, formed upon the globe. The wires are secured to and carried with the cap D. Said cap, side bars, and holder-plate constitute the holder-frame, to which the globe may be readily applied or from which it may be as easily removed. This frame is adapted to slide vertically up and down relative to the tubes, base, and burner, the sleeve *n* moving upon the central tube, C, and the side bars, *k*, reciprocating in loops or guides upon the air-tubes B. The lifting and sustaining springs for this sliding frame are shown at *m*. I may here remark that but one of these springs is necessary if made of the proper strength; but, for symmetry and convenience, I prefer to employ two, as shown. The springs are secured to the side air-tubes, B, preferably near their upper ends, as shown, and extend inwardly in a substantially horizontal line to the holder-frame, to which they are secured by their inner ends. I prefer to employ a single piece of wire, which is looped at its middle around the sleeve *n* and soldered thereto, if desired, the two ends being each bent into one or more coils, *m' m'*, to give more play and elasticity, and secured by their extremities to the tubes B. With such arrangement of springs and mounting of the holder-frame upon the central tube it is very convenient to use the form of catch illustrated.

J is a rod secured to the sliding frame and projecting above the lantern-frame, as shown. By pressing down upon this rod the holder-frame may be depressed to its lowermost position against the stress of spring or springs *m'*. When so depressed, a spring-bar, I, secured to the holder-frame and provided with a shoulder, *r*, will secure the holder in said position by the engagement of said shoulder with a ring or disk, *o*. The latter is secured rigidly to the upper end of the central tube, and has apertures through which the rods J and I pass.

Neither the special form of catch herein shown, involving the parts J, I, *r*, and *o*, nor the special form of globe-holder involving

parts F i i' is claimed herein, these improvements being the subject of another application of mine now pending in the United States Patent Office, Serial No. 230,603.

5 Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

In a lantern, the combination, with the main frame of the lantern, having the central tube,
10 C, of the holder-frame provided with the bearing fitting and adapted to slide upon the said

tube, the lifting-spring *m*, secured to the main frame, extending inward, and secured at its inner end to the holder-frame, and at the top of the latter and near said bearing a catch for 15 holding the sliding frame against the stress of said spring, substantially as set forth.

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Witnesses:

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