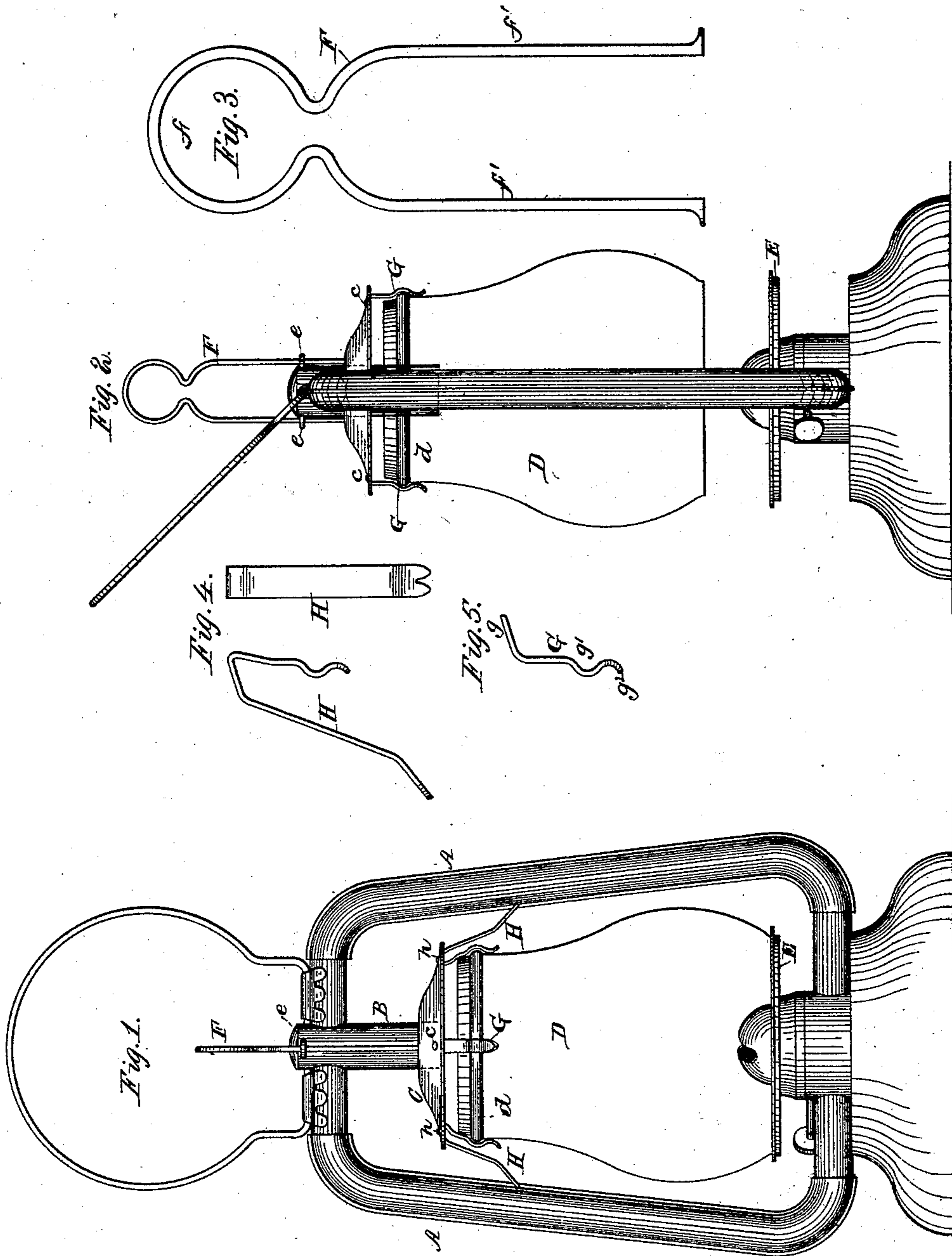


(No Model.)

J. MONCUR.
LANTERN.

No. 285,147.

Patented Sept. 18, 1883.



Witnesses:
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UNITED STATES PATENT OFFICE.

JAMES MONCUR, OF OWEN SOUND, ONTARIO, CANADA.

LANTERN.

SPECIFICATION forming part of Letters Patent No. 285,147, dated September 18, 1883.

Application filed July 25, 1883. (No model.)

To all whom it may concern:

Be it known that I, JAMES MONCUR, of Owen Sound, in the Province of Ontario and Dominion of Canada, have invented certain
5 new and useful Improvements in Lanterns; and I do hereby declare the following to be a full and exact description of the same, which will enable others skilled in the art to which the invention appertains to practice the same,
10 reference being had to the accompanying drawings, and to the figures and letters of reference marked thereon.

In said drawings, Figure 1 represents a side elevation of a tubular lantern to which my improvements are shown applied. Fig. 2 is an
15 edge view of the same. Fig. 3 is a view of the spring-bail detached. Figs. 4 and 5 are detail views of the springs which secure the chimney with relation to the upper disk, and
20 serve to hold the upper disk and chimney in adjusted positions.

Similar letters of reference in the several figures indicate the same parts.

A A represent the main side tubes of a
25 tubular lantern; B, the upper central tube, upon which the upper disk, C, slides. D is the chimney, and E is the disk which surrounds the burner and upon which the chimney rests when lowered. All these parts are
30 of the usual construction and do not need more particular description.

The novelty of my invention consists, particularly, in the peculiar construction and manner of applying the springs H H, which
35 perform the function of both assisting the springs G G to hold the chimney in place and of holding the disk and chimney in adjusted position when raised or lowered. It also consists in certain other combinations of parts,
40 which will be hereinafter described, and made the subject of claims at the end of this specification. The springs G are each made of sheet-brass or other sheet metal suitable for the purpose, of proper width and thickness. Each is
45 formed with an inwardly-projecting end, g , by which to secure it to the disk C, preferably by a rivet, c , with a corrugation, g' , at the middle, to receive the bead d of the chimney, and with an outwardly-curved lower end, g^2 , for causing it to spring out automatically when it
50 comes in contact with the edge of the chimney. The springs H H are each preferably made of

one piece of sheet metal, and of width and thickness corresponding to that of springs G G. Each is formed into two arms, and is connected, preferably, by a rivet, h , to the disk C
55 between the arms, as shown, and the shorter arm is shaped like the springs G G and operates like said springs to hold the chimney in position by the bead, while its longer arm extends downward and outward from its point
60 of connection with the disk, and at its extremity is bifurcated or forked, so as to embrace the side tube, A, or a rib on said tube, as shown.

The bail F consists, preferably, of a piece of springy wire bent into the form of a loop, f , and two legs, $f' f'$, the former of which serves as a means of operating it, while the latter
65 pass down through two guide loops or eyes, e , on the sides of the central tube, and are riveted or otherwise fastened at their extremities to the disk C. The bail F serves as a convenient means for raising and lowering the
70 disk C. When the said disk is raised, the chimney may be connected either by resting it upon the lower disk, E, and forcing the disk C down until the springs G G and the shorter arms of the springs H H snap over the bead
75 d of the chimney, or by thrusting the upper end of the chimney up toward the disk C, while the latter remains elevated, either way effecting automatically a secure connection, as
80 shown in Fig. 1. The long arms of the springs H H by their outward pressure against the side tubes serve to hold the disk and its attached chimney in whatever position the
85 latter are adjusted, whether up or down, and in this they are assisted by the legs of the bail F, which spring against their guide-loops and somewhat bind therein.

I preferably make the connection between the several springs and the disk C by means of rivets, and in this way avoid all soldering and produce joints indestructible by heat.

The whole lantern herein shown and described is very simple in construction and can be manufactured at trifling expense.

I claim as my invention—

1. The combination, with the side tubes, the
100 central tube, and the disk sliding upon the central tube, of the springs H, applied to the disk, as described, and having the depending spring-arms, which bear outwardly against the side

tubes and hold by their pressure the disk in its adjusted positions, substantially as described.

2. The combination, with the side tubes, the
5 central tube, and the disk sliding upon the central tube, of the springs H H, applied to the disk, as described, and having the short and the long arms, adapted, respectively, to hold the chimney to the disk and to bear upon the
10 side tubes and hold both disk and chimney in adjusted positions, substantially as shown and described.

3. The combination, with the side tubes, the central tube, and the sliding disk, of the springs
15 H H, having the long arms with bifurcated ends, adapted to embrace and bear against the side

tubes, and the short arms for holding the chimney to the disk, substantially as described.

4. The combination, with the side tubes, the central tube, the sliding disk, and the springs
20 H H, constructed and applied as described, of the spring-bail and its guide for co-operating with the springs H H to hold the disk in its adjusted positions, substantially as described.

5. The combination, with the side tubes, the
25 central tube, the sliding disk, and the beaded chimney, of springs G G and H H, constructed and applied substantially as described.

JAMES MONCUR.

Witnesses:

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