

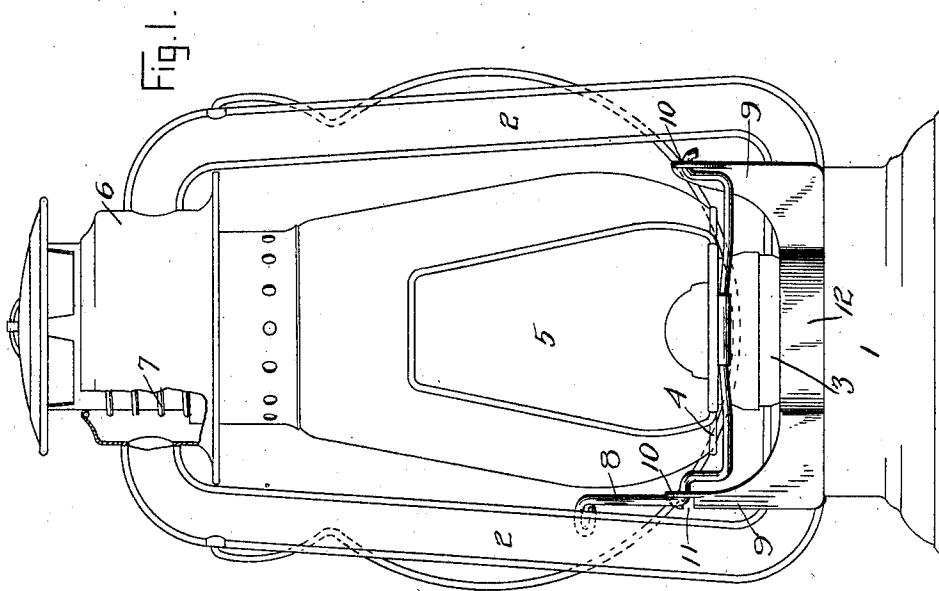
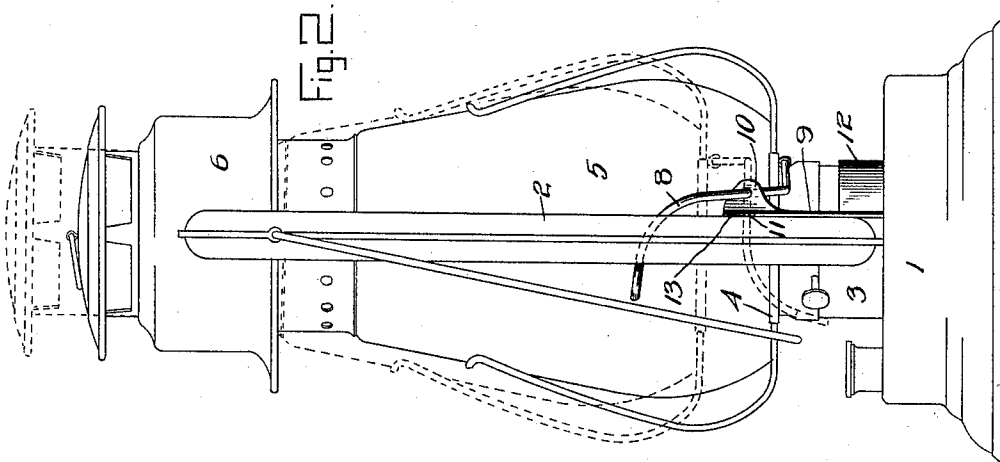
J. H. HILL.

LANTERN.

APPLICATION FILED JULY 1, 1909.

983,281.

Patented Feb. 7, 1911.



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UNITED STATES PATENT OFFICE.

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LANTERN.

983,281.

Specification of Letters Patent.

Patented Feb. 7, 1911.

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To all whom it may concern:

Be it known that I, JAMES H. HILL, a citizen of the United States, residing at Rochester, in the county of Monroe and State of New York, 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to lanterns, and has reference more particularly to bearing-plates for the globe lifting lever and to means for locking the lever in position to support the globe in its elevated position.

One object is to provide a simple and strong bearing-plate or plates for the lifting-lever, and to position them so that they will be entirely disconnected from the air-tubes, thus taking all strain from off the tubes, and at the same time be so located that they and both ends of the lifting-lever and its operating crank or handle will lie between the air tubes and globe or air chamber and thus form no projections or extensions outside of the tubes and to an extent be shielded or protected against injury.

To the accomplishment of the foregoing and such other objects as may hereinafter appear the invention consists in the features hereinafter particularly described and then sought to be clearly defined by the claims, reference being had to the accompanying drawing forming a part hereof, and in which—

Figure 1 is a front elevation of a lantern embodying the improvements, a portion of the dome being broken away to show the spring therein; and Fig. 2 a side elevation, the dotted lines showing the position of the parts when the globe is raised.

In the drawing, the numeral 1 designates the oil font; 2 the air tubes; 3 the air chamber; 4 the hinged globe-plate; 5 the globe; 6 the dome; 7 the spring in the dome and 8 the lifting lever, said parts being of any well known approved type of construction.

The lifting lever is journaled in bearing-plates formed of upright standards 9 provided at their upper ends with ears or lugs 10 through which the lifting lever passes

and in which it is journaled. The standard in which the operating handle end of the lever is journaled is formed with a notch or recess 11 in one side or edge to receive the handle portion of the lever when the lever is in position to raise the globe so as to lock the handle or lever and thus support the globe in elevated position against the tension of spring 7 which exerts a downward pressure on the globe and steadily holds it in its normal lowered position.

The standards 9 are brazed or soldered to the horizontal portions of the air tubes and oil font, and preferably are stamped from a single piece of metal and connected one with the other by a neck 12 which will be given the curvature of one side of the air chamber and will be brazed or soldered thereto; and if desired the portions of the standard secured to the air tubes may be curved to conform closely to the portion of the tubes against which they bear.

By the construction described rigid and strong bearing-plates are provided for the lifting lever so that stability and durability are imparted to the attachment, and the standards are removed from the tubes and entirely within the space or area between the tubes as is also the operating handle and other parts of the lifting lever, and the vertical portions of the air tubes are relieved from any and all strain from the bearing-plates and operating lever.

The spring which holds the globe to its plate and said parts down to the cone of the burner also exerts a tension on the operating handle of the lifting lever so as to hold the handle in the locking recess of the standard when the globe is in its raised position.

The top edge of the standard at the operating end of the lifting lever is curved and inclined downward toward the locking recess and is beveled as shown at 13 on the side against which the operating arm bears in lifting the globe so as to afford an easier movement to the arm and also reduce the wear on the arm. To release the operating arm from the recess it is pressed outwardly and then the tension exerted by the globe depressing spring will cause the handle to rise and move inwardly while at the same time the other part of the lever will be lowered so as to seat the globe and globe-plate.

I have illustrated and described the preferred details of construction of the various

parts but it is obvious that changes can be made without departing from the essential features of the invention.

Having described my invention and set forth its merits, what I claim is:—

1. In a lantern, the combination with air-tubes, globe-plate, and lifting-lever, of bearing-plates for the lever supported between, at a distance from, and independently of the vertical portions of the air tubes, the bearing-plate at the operating handle end of the lifting lever being formed with a locking recess for the lever handle, substantially as described.

2. In a lantern, the combination with air-tubes, globe-plate, and lifting lever, of bearing-plates for the lever connected one with the other by a neck and supported between the tubes at a distance from the vertical portions of the tubes, substantially as described.

3. In a lantern, the combination with air-tubes, globe-plates, air chamber and lifting

lever, of bearing-plates for the lever connected one with the other by a neck and secured to the horizontal portions of the air tubes and the air chamber and standing at a distance from and independent of the vertical portions of the tubes, substantially as described.

4. In a lantern, the combination with air-tubes, globe-plate, air chamber and lifting lever, of bearing-plates for the lever connected one with the other by a neck and interposed between the vertical portions of the tubes, said bearing-plates and neck being secured to the oil-font, horizontal portions of the tubes, and air chamber, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES H. HILL.

Witnesses:

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