

(No Model.)

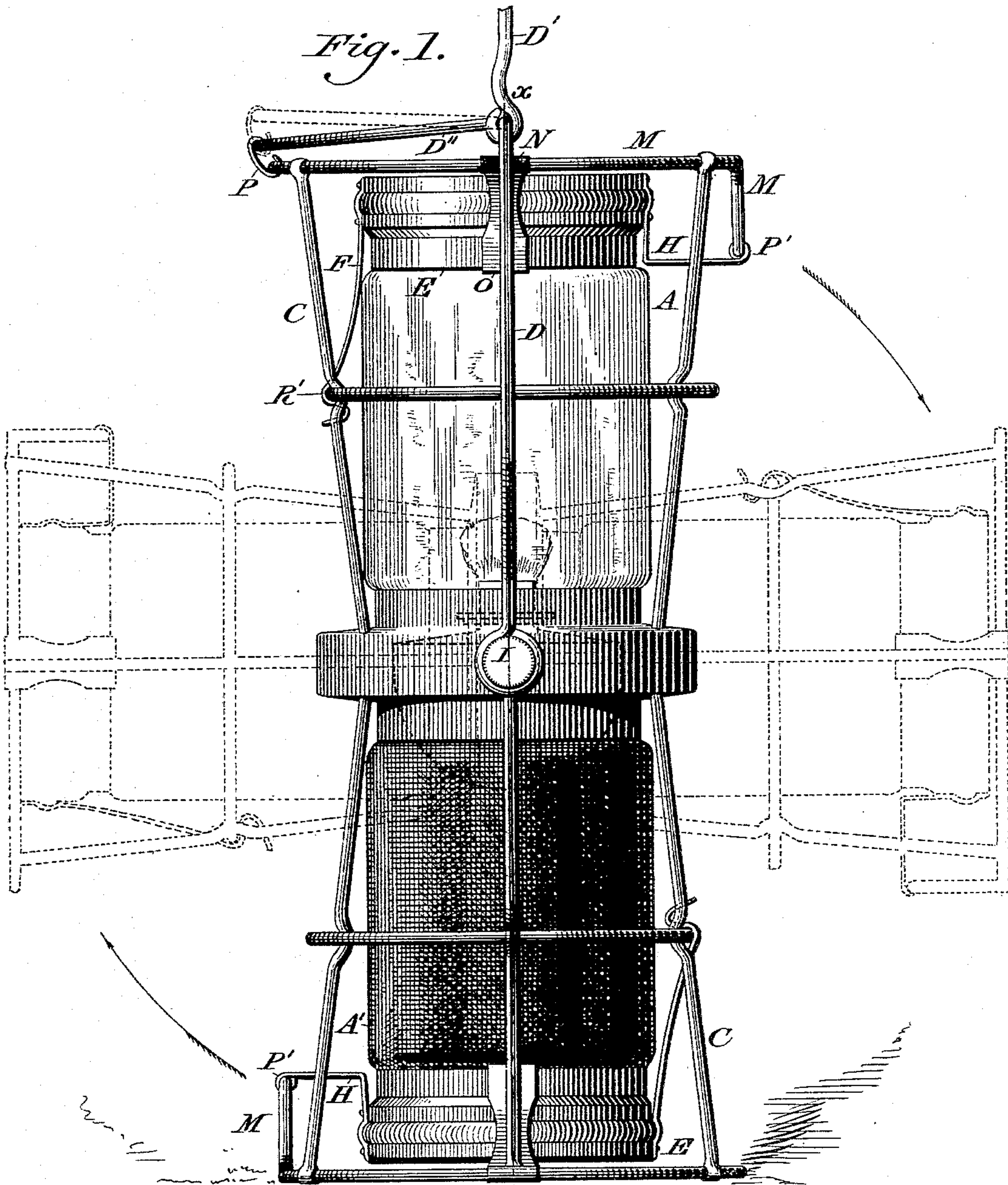
3 Sheets—Sheet 1.

J. H. BURRELL, Jr.

LANTERN.

No. 387,944.

Patented Aug. 14, 1888.



Witnesses.

P. F. Hagler.
Robt. Aiton.

Inventor

John H. Burrell, Jr.

By His Attorneys,

Wiedersheim & Kintner

(No Model.)

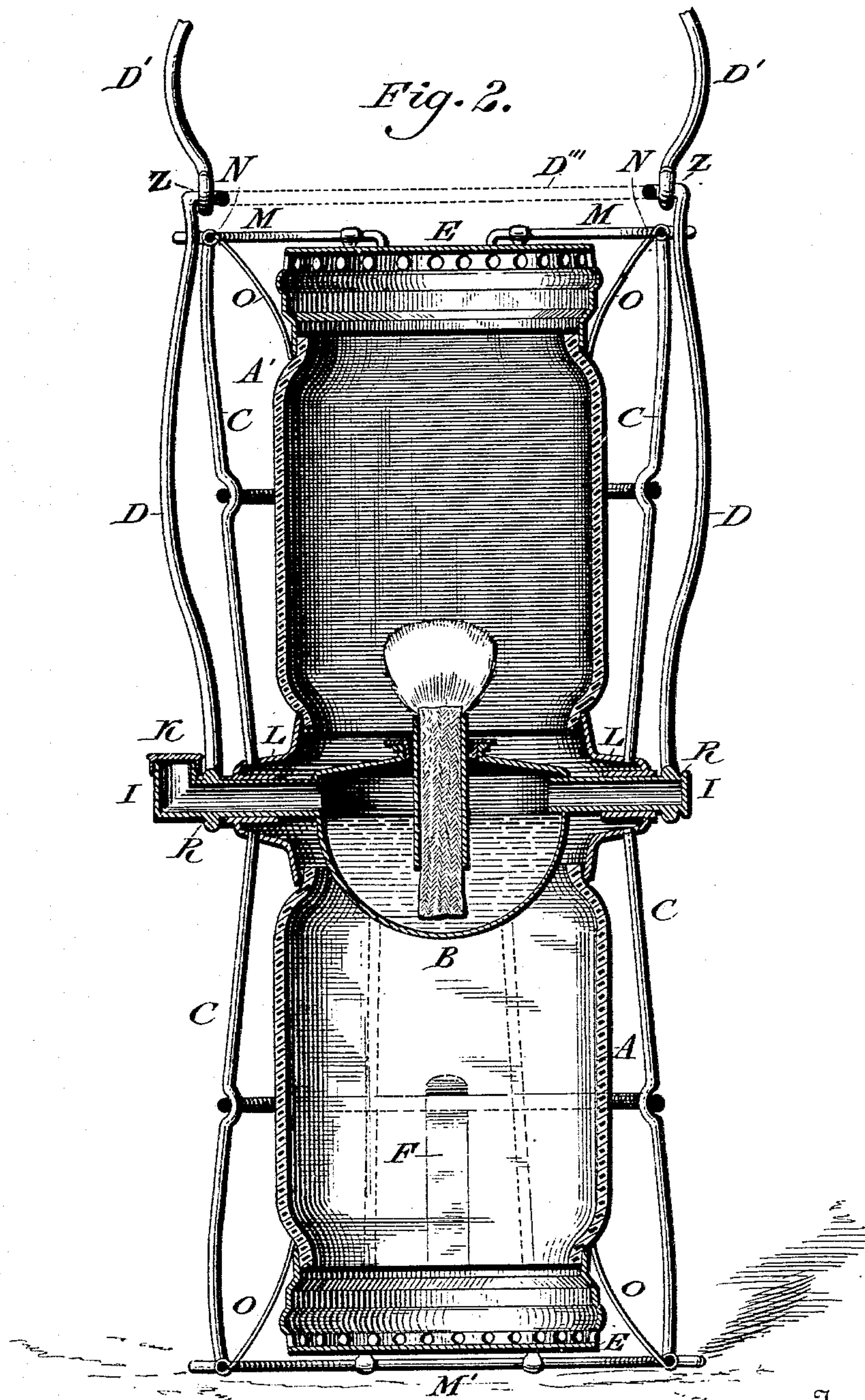
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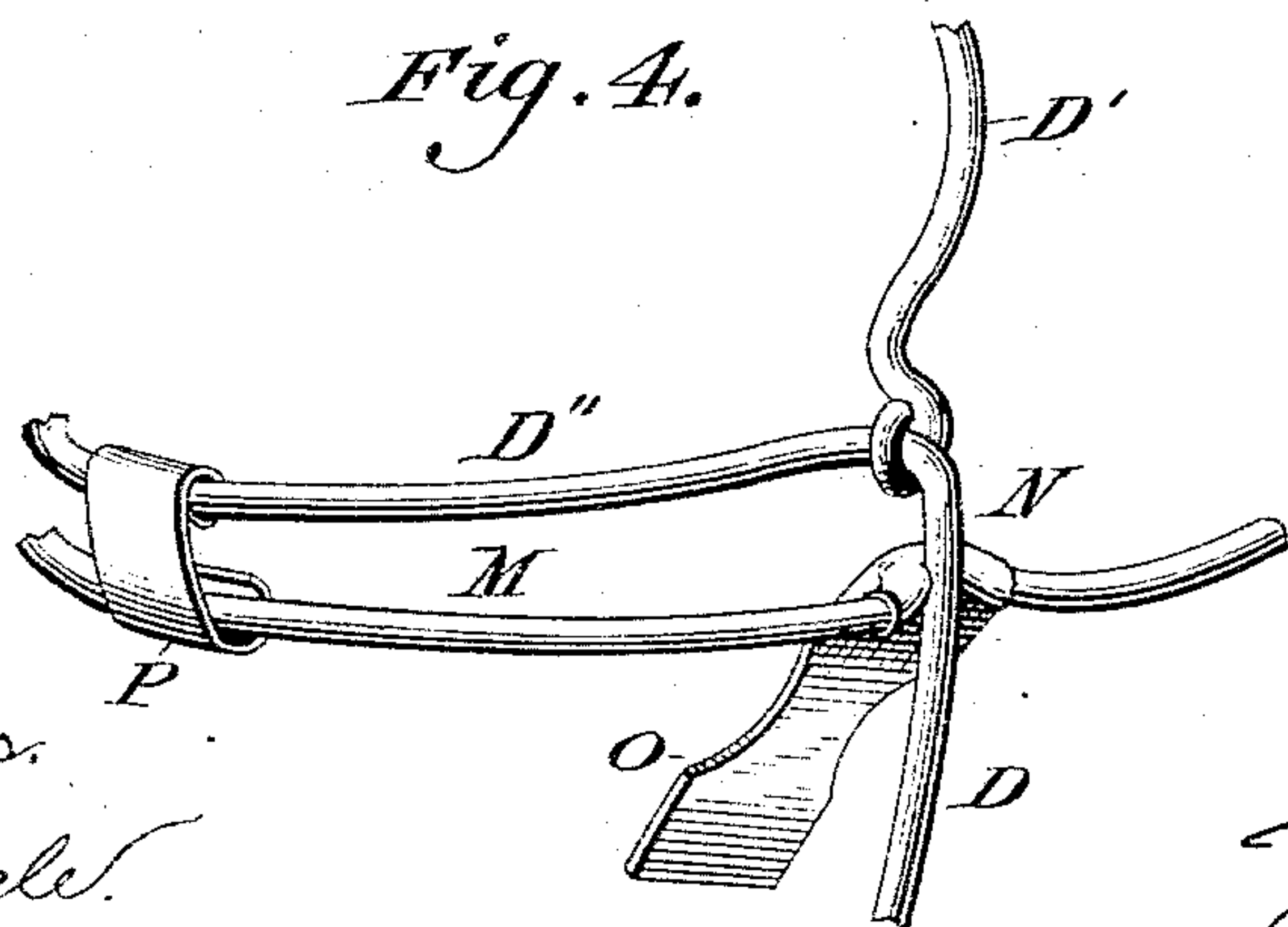
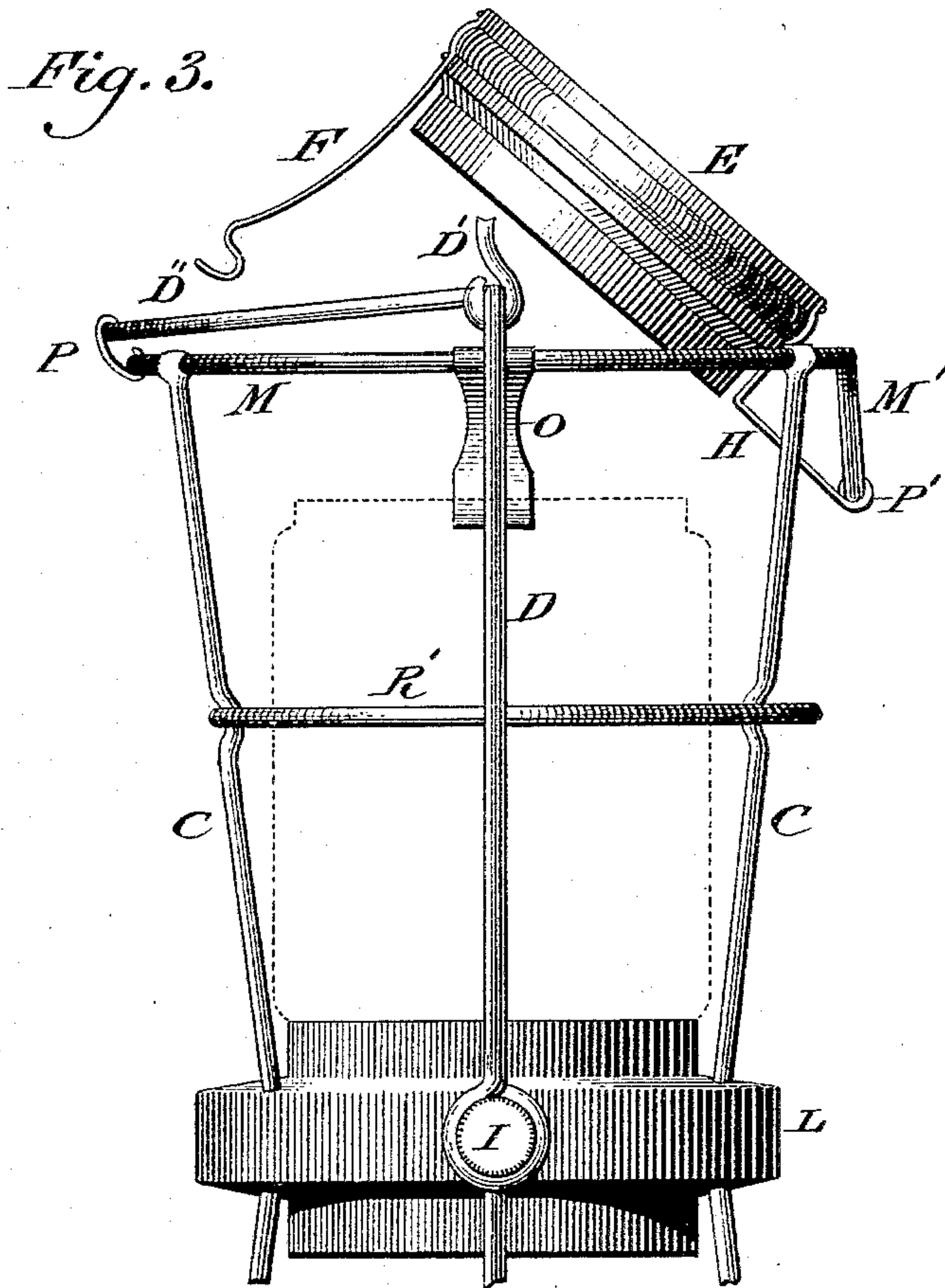
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Witnesses,
O. F. Eagle.
Robt. Aiton.

Inventor,
John H. Burrell, Jr.

By His Attorneys.

Giederoheim & Kintner

UNITED STATES PATENT OFFICE.

JOHN H. BURRELL, JR., OF PHILADELPHIA, PENNSYLVANIA.

LANTERN.

SPECIFICATION forming part of Letters Patent No. 387,944, dated August 14, 1888,

Application filed July 29, 1887. Serial No. 245,635. (No model.)

To all whom it may concern:

Be it known that I, JOHN H. BURRELL, Jr., a citizen of the United States, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Improvement in Lanterns, which improvement is fully set forth in the following specification and accompanying drawings.

My invention relates to improvements in lanterns, and particularly to signal-lanterns of the type patented to Christian E. Metzler and myself on the 21st of August, 1883, numbered 283,633.

In the patent referred to a signal-lantern was described and claimed consisting of a globe of two parts of different colors, reversible on an axis, with a lamp located inside said parts adapted to illuminate either part, as well as certain other details were described and claimed in this patent, and which for the purposes of the present application need not be referred to here.

My invention relates to improvements in lanterns; and it consists, first, in a lamp-bowl having filling-tubes to which the bails of the lantern are rigidly secured, and on which is pivotally mounted a ring carrying a frame with the different colored globes therein.

It consists, second, in a novel bail attachment and locking devices therefor.

It further consists in specific details hereinafter described, and particularly pointed out in the claims which follow this specification.

Figure 1 is a side elevation of my improved lantern, showing in dotted lines the frame revolved ninety degrees in the act of substituting one globe for the other. Fig. 2 is a vertical section of Fig. 1, taken on line *x x*, the dotted-line elevation being omitted in this figure. Figs. 3 and 4 are detail views—the former in elevation and the latter in perspective—of the locking parts for the globe and bail.

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

Referring to the drawings, A A are the two globes—the former plain glass and the latter colored, usually red, for railroad use.

B is the lamp-bowl, pivoted or trunnioned in the solid globe-retaining ring L at the center of gravity of the frame and globes through the agency of a hollow tube, I, which serves an additional function as a filler-tube.

C C constitute the wire frame-work of the lantern, and D is the bail, having ears R R, which are soldered to the tube I, so as to maintain the erect position of the bowl during the turning or rotating of the globes with it. Inasmuch as the upper and lower portions of the lantern-frame embracing the globe and their catches and retaining devices are exact duplicates, I will describe the upper set only.

D' is the hand or arm attachment of the bail, and is connected to D by ears Z Z.

E E are the caps for holding the globes in place, and they are hinged to the frame of the lamps by downward-projecting parts M' and hinges H H, hinged at P' P'. On the opposite edge is arranged a catch, F, adapted, when the globe is in place, to hook under the rib R' of the frame, and thus retain it in position by bringing the edge of the cap E over the top of the globe, as seen in Fig. 2. Additional catches O O are provided and affixed to the upper rib, M, for holding the globe in the event of the catch F coming loose.

N N are notches in the side of the top rib, M, into which the bail is forced when the proper globe is in position, and thus hold it firmly against rotation. An additional catch, P, is pivoted to a side extension, D², of the lower bail and adapted to hook on the rib M, as clearly shown in Figs. 1, 3, and 4.

K is a screw-cap for the oil-tube, and may, if desired, for symmetry's sake, be duplicated at the other end.

The mode of using my improved lantern is as follows: When it is desired to use the white globe—in this instance the upper one (shown in Fig. 1)—the catch P is released from the rib M and the bail forced from the notches N N, and the frame bearing the globes is rotated, as clearly shown in dotted lines in Fig. 1, until the light or clear glass globe is above, as seen, and the bail locked in position by both the side locks in notches N and the top lock, P, at the top rib, M.

It will be noticed that the caps E are hinged at a point, P', on a level with the globe-tops, and that this arrangement keeps all of the parts within the protecting-frame.

If it is desired to remove the globes to clean them, I simply release the catches F F' from the ribs M M and turn them about their hinges, as shown in Fig. 3, then press the retaining-

springs O O inward, when the globes can be taken out bodily.

When it is desired to fill the lamp-bowl, I simply remove the screw-cap K and pour oil in at the mouth of the tube I. This feature I regard as a decided improvement upon the patent referred to, as it enables me to retain the bowl of the lamp inside a solid frame, and to thus make the lamp more compact and durable.

The double-jointed bail makes the lamp more portable for packing purposes, and renders it easy of adjustment on the arm of the person carrying it.

I am aware that it is not new with me to provide a feeder or filling tube at the outside of a lantern, and I do not therefore claim such a construction; nor do I limit myself to an oil-lamp bowl, it being obvious that any light may be used with my improved form of double revolving globe and frame.

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

1. In a signal-lantern, the combination of a lamp-bowl provided with hollow filling-tubes, a bail rigidly secured to said tubes and having pivotal arm attachments, a ring pivotally mounted on said tubes, and a frame carried by said ring and provided with globes of different colored glass, substantially as and for the purpose set forth.

2. In a signal-lantern, the combination of a lamp-bowl with tubes, a bail rigidly secured thereto, a ring pivotally mounted on said tubes and having the globes A A', the wire frame C, formed with the rib R', hinged caps E, and catch F, the latter adapted to catch with said rib R', substantially as described.

3. In a signal-lantern, the combination of a lamp-bowl with tubes, a bail rigidly secured thereto, one of the arms of said bail having an extension, D², a rotary frame having an upper rib, M, and a catch, P, adapted to bind said rib M and extension D², substantially as described.

4. In a signal-lantern, the combination of a lamp-bowl, a bail rigidly secured thereto, a rotary frame having the notches N N in the side of its upper rib, M, whereby said rotary frame is locked to said bail, substantially as described.

5. In a signal-lantern, the combination of a lamp-bowl, a bail rigidly secured thereto, a rotary frame pivotally secured to said lamp-bowl and carrying globes, the said frame having the caps E, and catches O O, secured to the upper rim, M, substantially as described.

JOHN H. BURRELL, JR.

Witnesses:

ANDREW ZANE, Jr.,
A. P. JENNINGS.