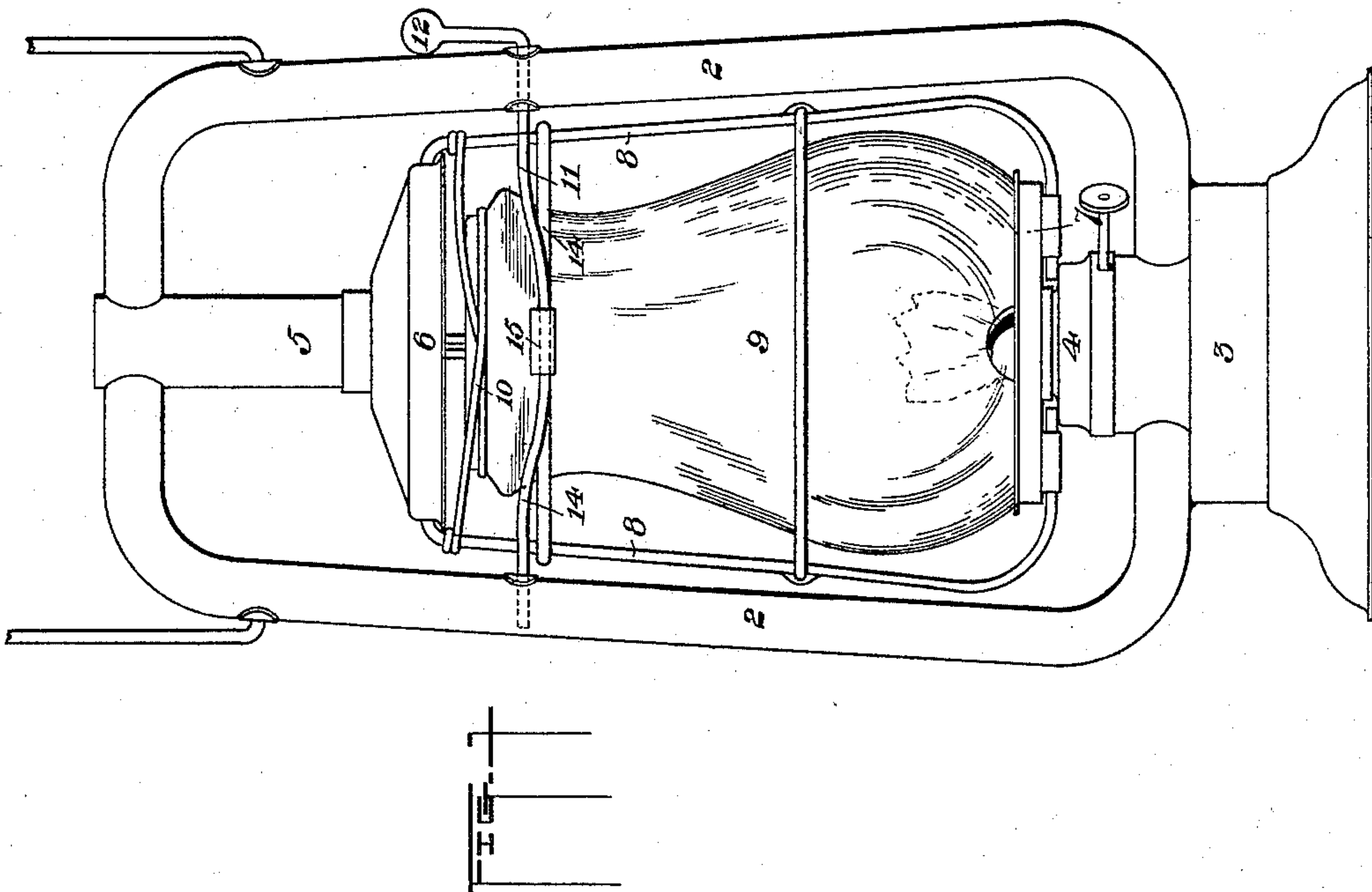
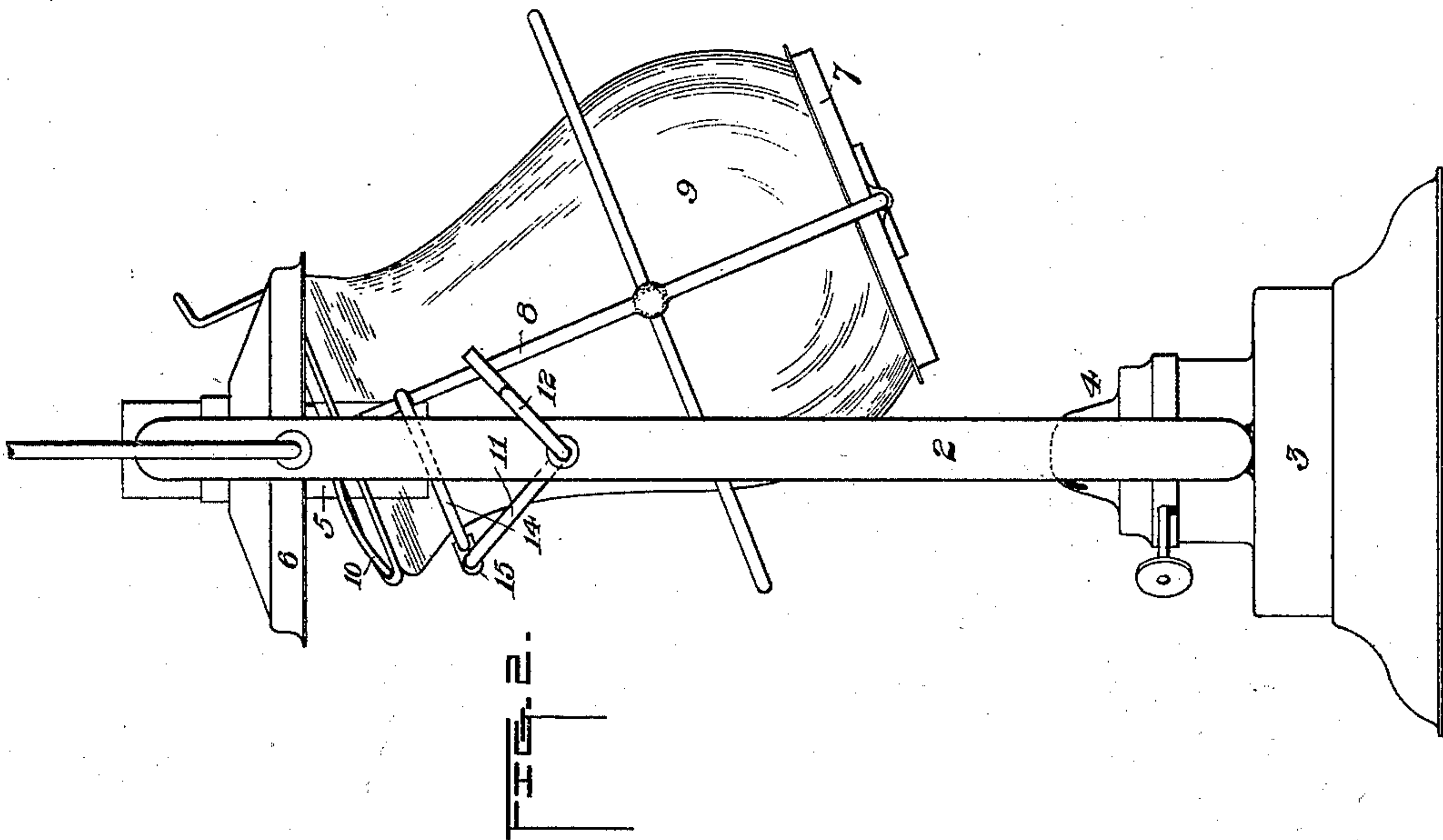


(No Model.)

A. W. PAULL.
LANTERN.

No. 433,364.

Patented July 29, 1890.



WITNESSES

W. B. Corwin
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INVENTOR

Archebald H. Paull
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UNITED STATES PATENT OFFICE.

ARCHIBALD W. PAULL, OF WHEELING, WEST VIRGINIA.

LANTERN.

SPECIFICATION forming part of Letters Patent No. 433,364, dated July 29, 1890.

Application filed January 22, 1890. Serial No. 337,688. (No model.)

To all whom it may concern:

Be it known that I, ARCHIBALD W. PAULL, of Wheeling, in the county of Ohio and State of West Virginia, have invented a new and useful Improvement in Lanterns, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a front elevation of my improved lantern. Fig. 2 is a side elevation showing the lantern with the globe raised from the burner.

Like symbols of reference indicate like parts in each figure.

In the drawings, 2 represents the side air-tubes.

3 is the base or foot of the lantern.

4 is the burner.

5 is the usual central air-tube at the top of the side tubes.

6 is a canopy or plate, which is mounted on the central air-tube and is vertically movable thereon.

7 is a perforated plate which serves the function of a globe-rest, and is connected by rods or wires 8 to the canopy 6, the connection of said rods with the canopy being pivotal, so as to allow of a swinging motion of the vertical rods on the axis of said connection. The globe 9 fits on the globe-rest, and at its upper end is held by an annular spring 10, which encircles the neck of the globe and is connected at the ends with the rods 8.

Fig. 1 shows the lantern when the parts are in their normal position with the globe-rest seated on the burner. The construction I have described enables the globe to be raised and swung laterally away from the burner between the side tubes. To do this, the globe-supporting frame, including the canopy, the vertical rods, and the globe-rest, may be lifted vertically, the sliding connection between the canopy and the central air-tubes permitting such lifting of the parts, and then when the globe-rest has cleared the burner the globe-rest and rods 8 may be swung laterally on the axis of the connection between the rods 8 and the canopy, bringing these parts into the position shown in Fig. 2.

In order to guide the globe-rest and its supporting-frame in the vertical and lateral motions above described, I prefer to employ a lever connecting the globe-frame with the body or frame of the lantern. A convenient form of such lever is shown in the drawings, in which 11 represents the lever, which is made of crank form and is journaled at its ends, preferably, in the side tubes, and is connected by a pivotal joint 15 with a brace rod 14, which extends between the vertical rods 8, and forms part of the globe-frame. When this lever is used, if the globe and globe-rest be pushed upwardly by the hand the lever will guide the same and will cause them to move in the vertical and lateral directions above explained, so as to bring the parts into the position shown in Fig. 2 and to give free access to the burner. While it is possible thus to operate the lantern-globe, I prefer to use a handle 12, which is attached to the end of the lever 11, on turning which handle the lever is moved axially, so as to raise and swing the globe, as above described.

In the device herein shown and described the canopy slides on the central air-tube, and the globe-frame is pivoted to and swings laterally from the said canopy, and the lever is pivoted near the upper end of the globe-frame, leaving the lower portion of such frame to swing free.

In the device shown and described in application Serial No. 268,280, the canopy slides and rocks on the central air-tube and the lever, irrespective of construction, is pivoted to the lantern-frame to raise the globe-frame and move it laterally.

In the device shown and described in application Serial No. 337,319, the canopy slides on the central air-tube and the central air-tube is pivoted on the side air-tubes so as to rock on such tubes. The lever, which movably connects the globe to the lower part of the lantern, may or may not have a handle, and when the handle is employed it interlocks with the side air-tubes to retain the globe-frame in position.

The improvement covered by the present application consists, first, in the peculiar arrangement of the canopy, which is vertically

movable on the central air-tube and the pivotal connection of the remainder of the globe-frame therewith; and, second, in the use of a lever connecting the lantern-frame with the globe-frame above the base of the latter.

The advantages of my improvement will be appreciated by those skilled in the art.

It will be understood that the construction, form, and relative arrangement of the parts of the apparatus which I have shown and described may be varied by the skilled mechanic within the scope of my invention, as stated in the following claims.

I claim—

1. In a lantern, the combination of a vertically-movable canopy and a globe-supporting frame pivotally connected therewith, substantially as and for the purposes described.

2. In a lantern, the combination of the air-tube, a canopy movable vertically thereon, a globe-supporting frame pivotally connected with the plate or canopy, and a spring against which the top of the globe has a bearing, substantially as and for the purposes described.

3. In a lantern, the combination, with the laterally-movable globe-frame and the lantern frame or body, of a lever pivotally con-

necting the lantern frame or body with the globe-frame near the top of the latter, substantially as and for the purposes described.

4. In a lantern, the combination of side tubes, a globe-frame laterally movable between the side tubes, and a lever journaled to the side tubes and pivotally connected with the globe-frame near the top thereof, substantially as and for the purposes described.

5. In a lantern, the combination of side tubes, a central tube, a globe-frame having a canopy vertically movable on the central tube, and having a globe-supporting plate, and wires forming a globe-guard and connection between the canopy and supporting-plate, and a lever journaled to the lantern-frame and pivotally connected with one of the wires of the globe-guard above the globe-supporting plate, substantially as and for the purposes described.

In testimony whereof I have hereunto set my hand this 11th day of January, A. D. 1889.

ARCHIBALD W. PAULL.

Witnesses:

W. B. CORWIN,

JNO. K. SMITH.