

No. 621,668.

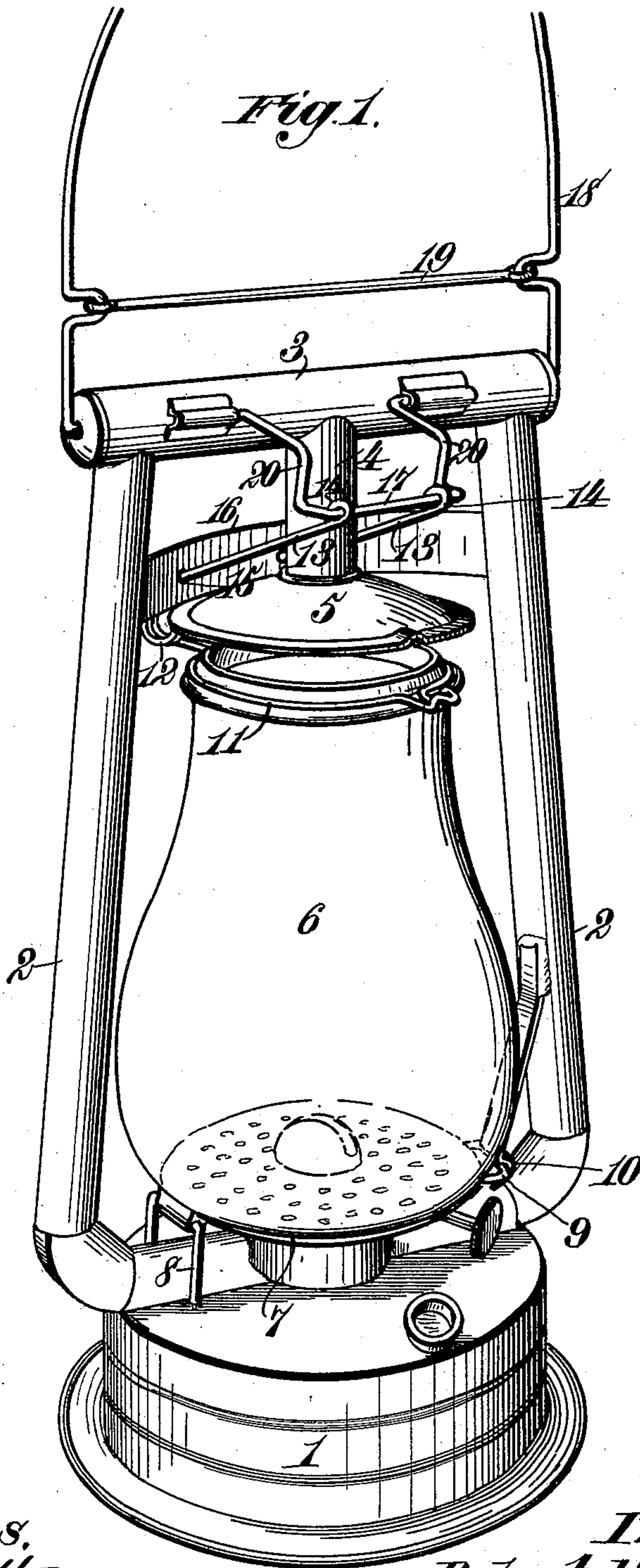
Patented Mar. 21, 1899.

R. HERMANCE.
LANTERN.

(Application filed July 19, 1898.)

(No Model.)

2 Sheets—Sheet 1



Witnesses,
Robert Everett,
J. B. Keefe

Inventor,
Robert Hermance,
By *James L. Norris,*
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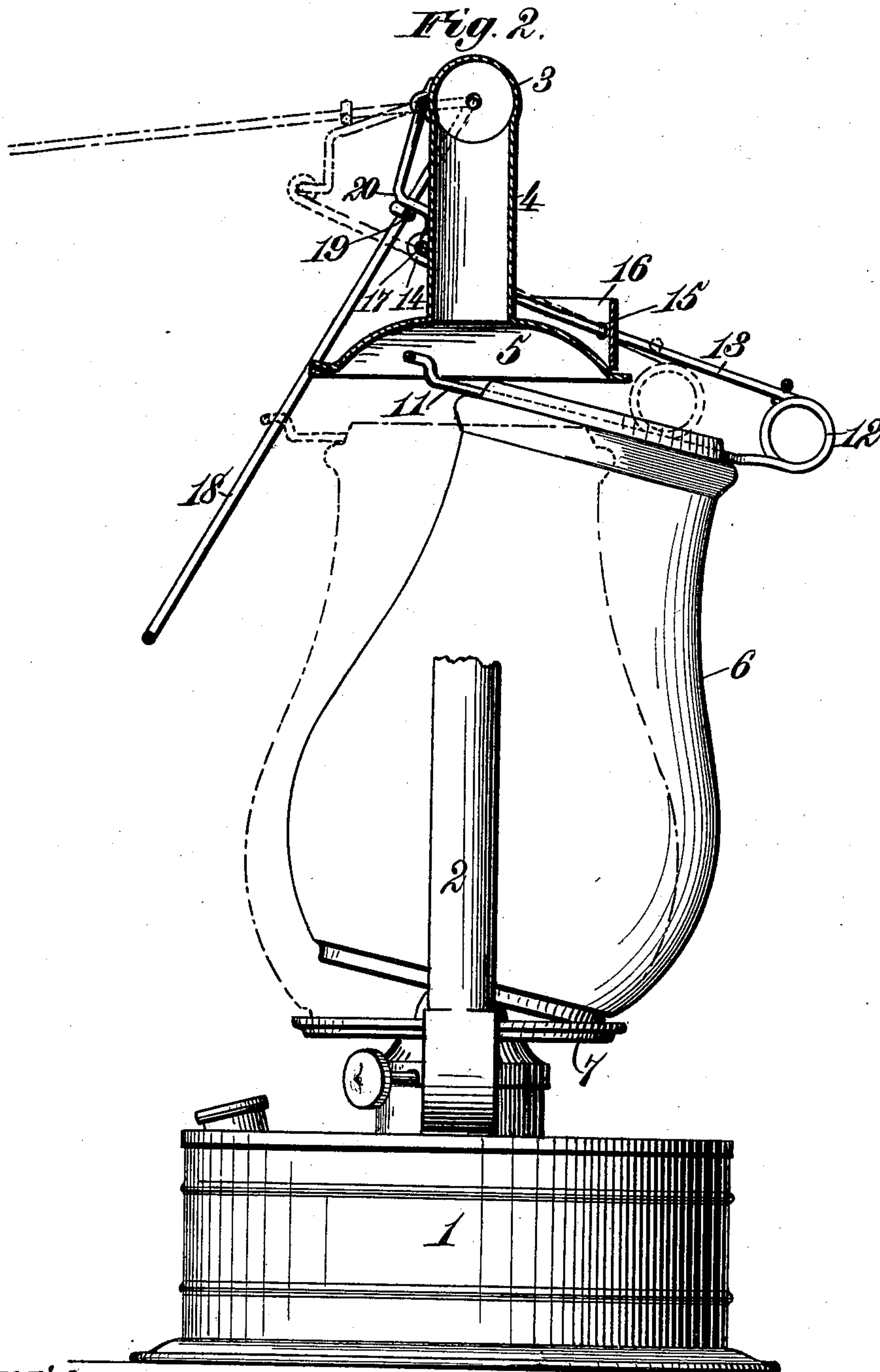
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2 Sheets—Sheet 2.



Witnesses.
Robert G. Vane
F. B. Steffen

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UNITED STATES PATENT OFFICE

ROBERT HERMANCÉ, OF GLENS FALLS, NEW YORK, ASSIGNOR, BY DIRECT AND MESNE ASSIGNMENTS, OF TWO-THIRDS TO DANIEL V. BROWN AND EDWARD REED, OF SAME PLACE.

LANTERN.

SPECIFICATION forming part of Letters Patent No. 621,668, dated March 21, 1899.

Application filed July 19, 1898. Serial No. 686,361. (No model.)

To all whom it may concern:

Be it known that I, ROBERT HERMANCÉ, a citizen of the United States, residing at Glens Falls, in the county of Warren and State of New York, have invented new and useful Improvements in Lanterns, of which the following is a specification.

This invention relates to that class of lanterns in which the globe or chimney is to be tilted when it is desired to obtain access to the burner for the purpose of igniting the wick.

It is the object of my invention to provide a novel, simple, and effective construction and arrangement of devices whereby a lantern globe or chimney may be tilted from its seat by swinging over and depressing the lantern-bail and whereby the globe may be automatically locked in tilted position while lighting the lantern.

The invention consists in features of construction and novel combinations of parts in mechanism for tilting a lantern-globe and locking it in tilted position, as hereinafter described and claimed.

In the annexed drawings, Figure 1 is a perspective of a tubular lantern provided with my improved globe tilting and locking mechanism. Fig. 2 is a part vertical section of the same, illustrating the manner of tilting and locking the globe.

The lantern-base or oil-reservoir 1 may be of any preferred form and construction and supports a frame which may comprise the usual vertical side tubes 2, that are connected by a horizontal tube 3 at the top. From this horizontal tube 3 there preferably depends, as usual, a central vertical tube 4, which communicates with and supports a dome 5 at its lower end.

The globe or chimney 6 is arranged below the dome 5 and normally rests on a globe-support 7, that has a central opening to fit around the burner. At one side the globe-support 7 is hinged to a support 8 on the oil-reservoir. Its other side is provided with an eye or loop 9 for engagement with a spring-catch 10 on the lantern-frame. By this arrangement of the spring-catch 10 it is entirely out of the

way and is automatically engaged with the eye or loop 9 whenever the hinged globe-support 7 is pressed down to its normal position.

At its upper end the lantern-globe 6 is held by the ring portion 11 of a wire spring-clamp that comprises also the coiled springs 12 and upper arms 13, having eyes 14 in their extremities. The arms 13 are passed through guide-openings 15 in a bridge-piece 16, secured to the upper part of the lantern-frame. The eyes 14 in the ends of these arms 13 are engaged with the cross-bar of a stirrup 17, that is hinged to the top of the lantern-frame on one side of its upper horizontal tube.

To the top of the lantern-frame there is pivotally attached a bail or handle 18, which I intend to employ also as a lever for tilting the lantern-globe and locking it in tilted position. For this purpose the swinging bail 18 is so constructed and arranged with relation to the hinged stirrup 17 that when the bail is swung over toward the stirrup and pressed toward the lantern-frame a portion of the bail, such as a cross-bar 19, will bear on the side bars of the stirrup and swing the same downward, thus forcing the clamp-arms 13 backward through the guide-openings 15 and downward toward the dome 5 in such manner as to compress the springs 12 and tilt the globe 6 rearward, thereby raising one side of its lower end away from the globe-support 7, and thus affording access to the burner for lighting the lantern. When the stirrup has been thus pressed downward and inward a sufficient distance to cause the required tilting of the globe, the cross-bar 19 or other suitable portion of the lantern-bail will engage with shoulders 20 in the side arms of the stirrup 17, thereby automatically locking the globe in tilted position. While the globe 6 is thus tilted a lighted match can be readily inserted under the raised lower edge of the globe to ignite the wick at the burner. On lifting the lantern bail or handle 18 the stirrup 17 will be immediately released, so that by the action of the springs 12 the globe 6 will be again properly seated on its support. It will thus be seen that in order to tilt the globe it is only necessary to swing over and de-

press the lantern-bail 18 a sufficient distance to cause a portion of the bail to bear against the stirrup 17 and through it force the arms 13 backward, the locking of the tilted globe being effected by automatic engagement of the bail with the shouldered portions of the stirrup. This employment of the bail 18 as a lever for actuating the tilting mechanism of the globe and for locking the same will not in any way impair its usefulness as a handle for the lantern, and all necessary range of swing is allowed to the lantern without any risk of contact between the stirrup and any portion of the bail.

Whenever it is desired to remove the globe 6 from the lantern-frame, the hand should be rested with fingers bearing on the frame-top, and then with the thumb pressing upward against a projection 21 of the clamping-ring 11 the said ring can be lifted from its engagement with the upper end of the globe, whereupon with the other hand the globe can be readily removed from its support. In like manner, too, the globe can be easily replaced when desired. In removing the globe or in tilting it the globe-support 7 is in no way disturbed, being securely held in place by the spring-catch 10 before mentioned.

By means of the bail-operated mechanism for tilting the globe there is afforded a great convenience for quickly and easily lighting the lantern, even in a high wind, and the tilting and locking of the globe are accomplished without any difficulty or inconvenience. All the parts of the lantern are simple, easily operated, and not liable to get out of order, and it will be obvious that the described globe tilting and locking mechanism can be readily applied to any lantern that is furnished with a swinging bail.

What I claim as my invention is—

1. The combination with a lantern-frame, a globe, and a globe-support, of a spring-clamp adapted to be engaged around the upper portion of the globe and provided with spring-arms, a stirrup hinged to the top of the frame and engaged with said spring-clamp arms, and a swinging lantern-bail having a portion

adapted to be brought into bearing contact with said stirrup to tilt the globe and raise one side of its lower edge away from the globe-support, substantially as described.

2. The combination with a lantern-frame, a globe, and a globe-support, of a spring-clamp adapted to be engaged around the upper portion of the globe and provided with spring-arms, a stirrup hinged to the top of the frame and engaged with said spring-clamp arms and provided with locking-shoulders, and a swinging lantern-bail provided with a cross-bar for bearing contact with said stirrup to tilt the globe and raise one side of its lower edge away from the globe-support and adapted to engage the shoulders of the stirrup to lock the globe in tilted position, substantially as described.

3. The combination with a lantern-frame, a globe, and a globe-support, of a stirrup hinged to the lantern-frame and having its side bars provided with shoulders, a spring-clamp engaged with an upper portion of the globe and having arms connected with said stirrup, and a swinging lantern-bail provided with means for being engaged with the side bars and shoulders of said stirrup to tilt the globe and lock it in tilted position, substantially as described.

4. The combination with a lantern-frame, a globe, and a globe-support, of a spring-clamp adapted to be engaged around the upper portion of the globe and provided with spring-arms, a stirrup pivoted to the frame and engaged with said spring-clamp arms, and a swinging lantern-bail having a portion adapted to be brought into bearing contact with said stirrup to tilt the globe and raise one side of its lower edge away from the globe-support and to lock the same in a tilted position, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

ROBERT HERMANCÉ.

Witnesses:

C. S. HAMILTON,
H. O. CRONKHITE.