A. W. PAULL.

LANTERN.

APPLICATION FILED JAN. 10, 1911.

1,000,341. Patented Aug. 8, 1911.

Fig. 2.

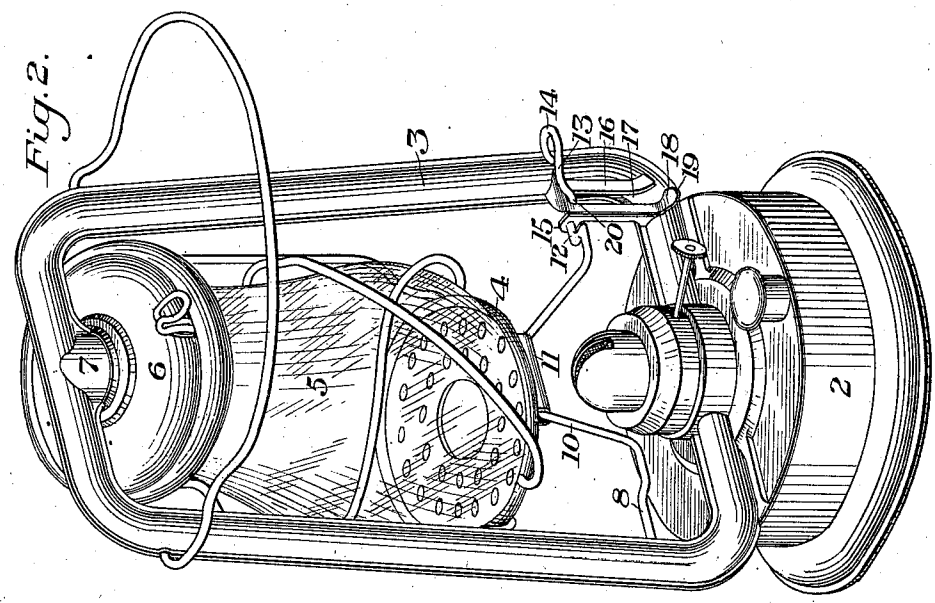
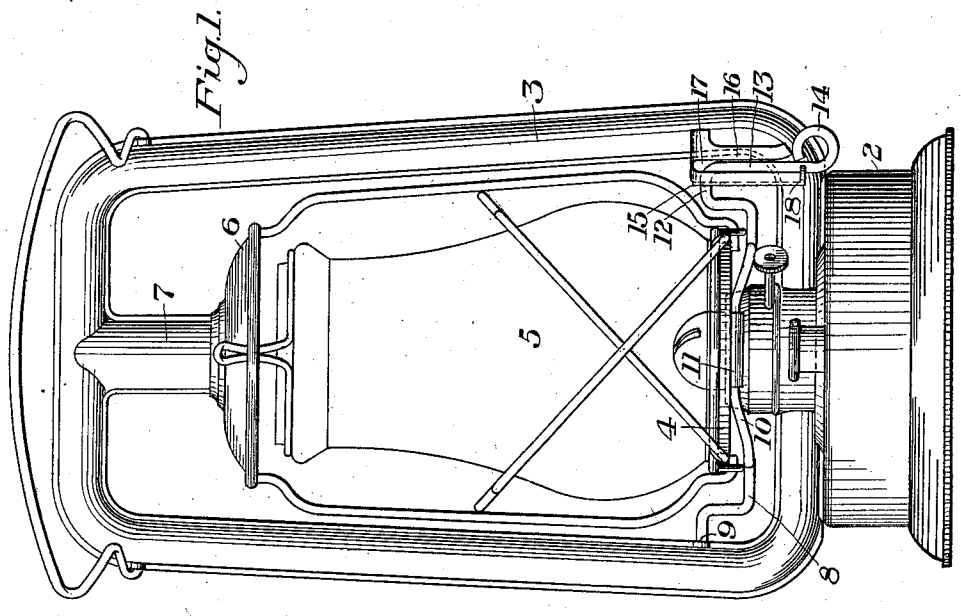


Fig. 1.



WITNESSES

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UNITED STATES PATENT OFFICE.

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LANTERN.

1,000,341. Specification of Letters Patent. **Patented Aug. 8, 1911.**

Application filed January 10, 1911. Serial No. 601,899.

To all whom it may concern:

Be it known that I, ARCHIBALD W. PAULL, a resident of Wheeling, county of Ohio, 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 part of this specification, in which—

Figure 1 is a front elevation of the lantern having my improvement applied thereto; and Fig. 2 is a perspective view showing the globe in its raised and swung position.

My invention has relation to lanterns, and more particularly to means for raising and lowering the globe, and is designed to provide means of simple and efficient character by which the globe and its support can be readily raised and swung away from the operator, to permit free access to the burner and filling nozzle of the lantern.

A further object of the invention is to provide a locking and holding means of novel character and to so arrange the same, together with the globe-operating mechanism, that the lantern shall be free from projections outside of its side tubes.

In the accompanying drawings, the numeral 2 designates the base of the lantern containing the usual oil receptacle; 3 the side tubes; 4 a vertically movable globe support; 5 the globe; and 6 the top cap which is arranged to slide vertically on the depending short center tube 7.

8 designates the improved lifting rod having one of its end portions bent upwardly and thence horizontally outward, to form a journal 9, which loosely engages the bearing in one of the side tubes. The central portion of the rod is formed with an upwardly directed crank 10, which loosely engages a bearing sleeve 11, on the under side of the globe support near the front edge thereof. The other end of the lifting rod is bent upwardly and thence horizontally outward, to form a journal portion 12, and thence downwardly to form an operating lever 13, which preferably terminates in the finger loop 14. The journal portion 12 is journaled in the rearwardly projecting lug 15 of a catch plate 16, which is soldered or otherwise secured to the inner edge portion of the adjacent side tube. This plate has a vertical slot 17, through which the operating lever 13 extends. The lower end of the inner leg of the catch plate is formed with a forwardly projecting lug 18, having a rounded end 19.

Normally the parts are in the position shown in Fig. 1, with the operating lever in substantially vertical position and its lower end behind and in locking engagement with the lug 18. When it is desired to raise the globe, the loop 14 is engaged by the finger and is readily forced out of its locking engagement with the lug 18, over the rounded end 19 thereof, and is moved upwardly in the slot 16. This rotates the lifting rod and its bearings and causes the crank to raise the globe support and the globe. As the crank passes center, the globe support and globe will be swung backwardly or away from the operator, and this movement of the parts past the center has a self-locking action which retains the parts in this position, the operating lever having an offset 20 to engage the top of the slot 16 to facilitate this action. When the lever is again pressed downwardly, the globe support and globe are carried back to their normal position and the lower end portion of the operating lever coming into engagement with the rounded end of the lug 18, rides over and around the same, and snaps into its locking position around this lug.

The device forms a very simple and convenient means for the purpose described and one which can be manufactured and applied to the lantern at a relatively low cost. It will be noted that the lifting of the globe is effected by an upward movement of the operating lever; that the globe is swung backwardlly or away from the operator as it is raised, thus giving free access to the burner and to the filling opening; and that the parts are so arranged that there is no projection beyond the outer side of the side tubes.

It will be obvious that changes may be made in the details of the construction and arrangement of the parts, such as the form of the crank lifting rod and the form of the catch plate, without departing from the spirit and scope of my invention, as defined in the appended claims.

I claim:

1. A lantern having a tubular frame and a globe support movable up and down therein, a cranked lifting rod engaging the globe support and having a bearing at one end in one of the said tubes, and a catch plate se-

cured to the inner side of the other side tube and having a bearing for the other end portion of the lifting rod, said plate also having a vertical slot therein, one leg of said plate having a forwardly projecting locking lug at its lower end and the lifting rod having an operating lever extending through said slot and adapted to have a locking engagement with said lug, substantially as described.

2. A lantern having a tubular frame, and a globe support movable up and down therein, a cranked lifting rod engaging the globe support and having a bearing at one end on the frame, and a catch plate secured to the inner side of the side tube at the opposite side of the frame and having a bearing for the other end portion of the lifting rod, said plate also having a vertical slot therein, one leg of said plate having a forwardly projecting locking lug at its lower end and the lifting rod having an operating lever extending through said slot and adapted to have a locking engagement with said lug; substantially as described.

3. A lantern having a tubular frame, a globe support movable up and down therein, of a cranked lifting rod journaled at its ends on the frame and having an upwardly extending crank engaging a bearing on the globe support, the bearing for one end of said rod being at the inner side of one of the side tubes of the frame, and the end portion of the rod adjacent to said bearing being bent downwardly to form an operating crank, said crank being movable upwardly from a normal down position to raise the globe support and globe; substantially as described.

In testimony whereof, I have hereunto set my hand.

ARCHIBALD W. PAULL.

Witnesses:
JAS. S. PAULL,
SIDNEY R. LAKE.