(No Model.)

W. BATDORFF.

TUBULAR OR HURRICANE LANTERN.

No. 588,945. Patented Aug. 31, 1897.

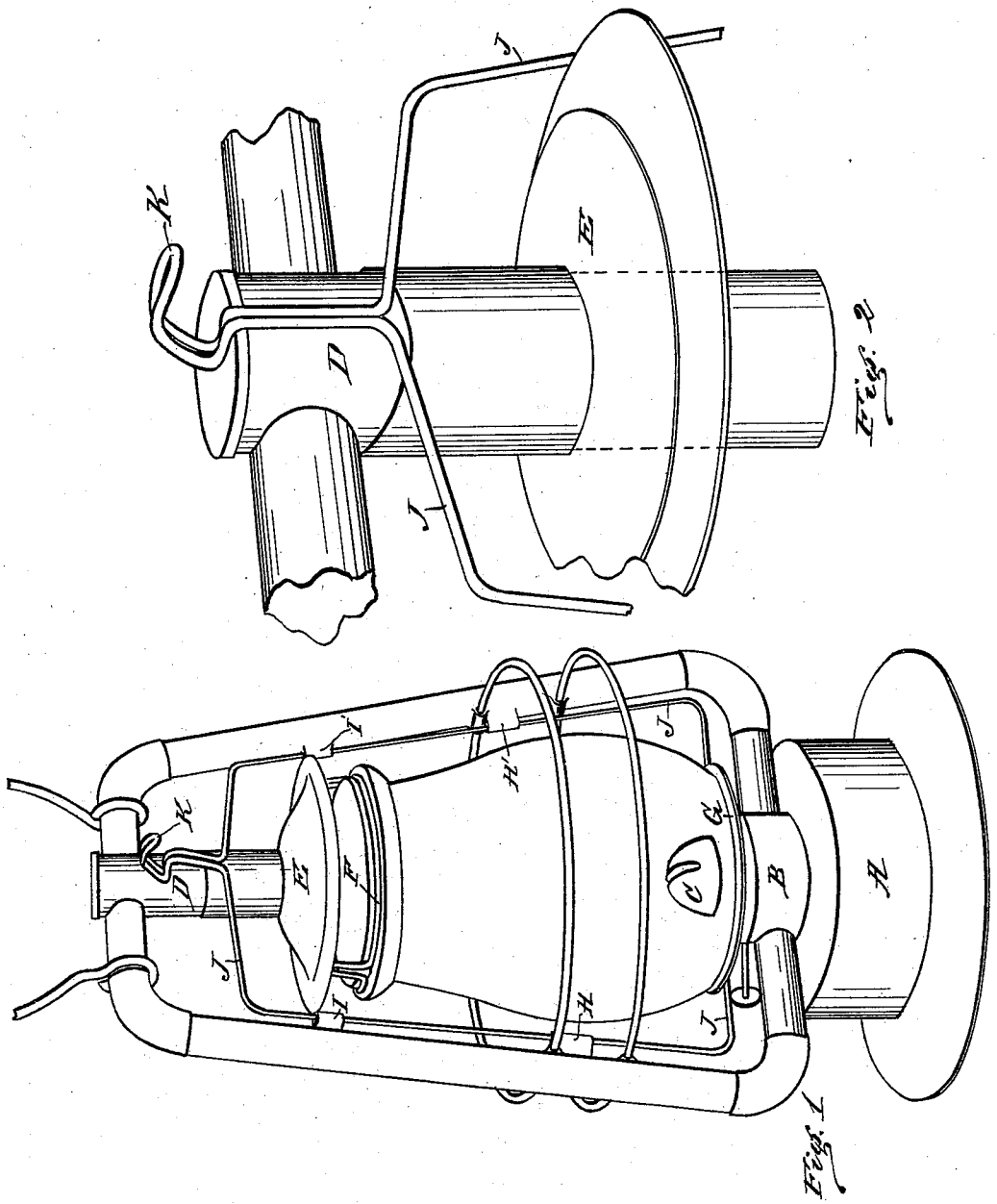


Fig. 2.

Fig. 1.

WITNESSES

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UNITED STATES PATENT OFFICE.

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TUBULAR OR HURRICANE LANTERN.

SPECIFICATION forming part of Letters Patent No. 588,945, dated August 31, 1897.

Application filed March 26, 1897. Serial No. 629,323. (No model.)

To all whom it may concern:

Be it known that I, WATSON BATDORFF, a citizen of the United States, and a resident of Canton, county of Stark, State of Ohio, have invented a new and useful Improvement in Tubular or Hurricane Lanterns, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification.

My invention relates to improvements in tubular or hurricane lanterns; and it consists of certain features of construction and combination of parts by which the globe may be raised and lowered by means of a globe-carrying frame formed of a single piece of wire so shaped as to constitute both the globe-carrying frame and the raising and lowering device and at the same time can be readily and quickly applied to any of the well-known forms of lanterns, as will be hereinafter more fully set forth and described.

Figure 1 is a perspective view of a tubular lantern, showing the globe-carrying frame applied thereto in its normal position when the lantern is closed. Fig. 2 is a perspective view of a portion of the top of a lantern, showing the engagement of the globe-carrying frame with the top of the centrally-depending air-tube when the globe is raised.

Similar letters refer to similar parts of the several drawings.

A represents the oil-pot of the lantern, upon which is mounted the air-chamber B and the burner C, which may be of any desired form of construction. To the air-chamber B and on either side thereof are attached horizontal air-tubes connecting with vertical side tubes, which in turn connect with horizontal tubes at the top of the lantern, terminating in the centrally-depending air-tube D, carrying the sliding bell E, to which is attached one of the well-known forms of globe-holding catch F, for holding the glass globe in position.

The globe-carrying frame J, consisting of a single piece of wire, the free ends thereof engaging with or soldered to the under portion of the globe-plate G, pass up on either side of the globe through guide-loops H and I and H′ and I′ upon the inner side of the vertical side tubes and terminate above and over the bell E in a spring-catch K, forming the handle for lifting the globe and the catch for engaging the globe-carrying frame with the top of the centrally-depending air-tube for the purpose of holding the lantern open in lighting.

In operation the thumb is placed under the handle and spring-catch K and raised until the globe-carrying frame is sufficiently elevated to enable the spring-catch to engage with the top of the centrally-depending air-tube. When the lantern shall have been trimmed or lighted, the spring-catch is disengaged from the top of the centrally-depending air-tube and the globe-carrying frame assumes its normal position, the spring-catch and handle K being so formed that in their normal position they do not come in contact with, and thus do not become heated up by means of, the gases passing through the centrally-depending air-tube. Heretofore this has been accomplished by means of various raising and lowering devices attached either to the upper air-tubes or the bail and have been objectionable because of the fact that they become heated to such an extent as to be practically inoperative and rendered the operation of relighting the lamp both difficult and painful.

My device overcomes all these difficulties and provides an extremely simple and perfectly reliable means of raising and lowering the globe independent of the bail and which may be readily adapted and quickly applied to any form of lantern.

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

1. A globe-carrying frame for tubular lanterns, consisting of a single piece of wire, having formed upon its upper middle portion a spring-catch to engage the top of the depending air-tube, the depending limbs of the wire passing through guide-loops attached to the inner sides of the vertical air-tubes, and engaging the globe-plate, substantially as described and for the purpose set forth.

2. The combination in a lantern, of a tubular frame attached to the oil-pot, carrying

the burner, with a globe-plate mounted thereon, a globe-carrying frame consisting of a single piece of wire, having formed upon its upper middle portion a spring-catch to engage the top of the centrally-depending air-tube, the depending limbs of the wire passing through guide-loops attached to the inner sides of the vertical air-tubes, and engaging the globe-plate, substantially as described and for the purpose set forth.

In testimony whereof I have hereunto set my hand this 15th day of March, A. D. 1897.

WATSON BATDORFF.

Witnesses:
ED. LANGENBACH,
F. A. SCHWERTNER.