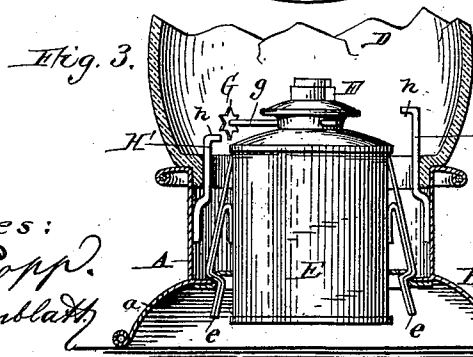
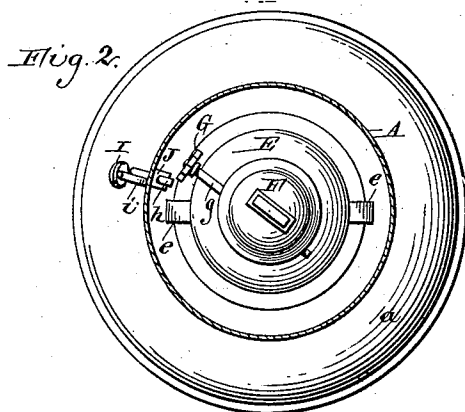
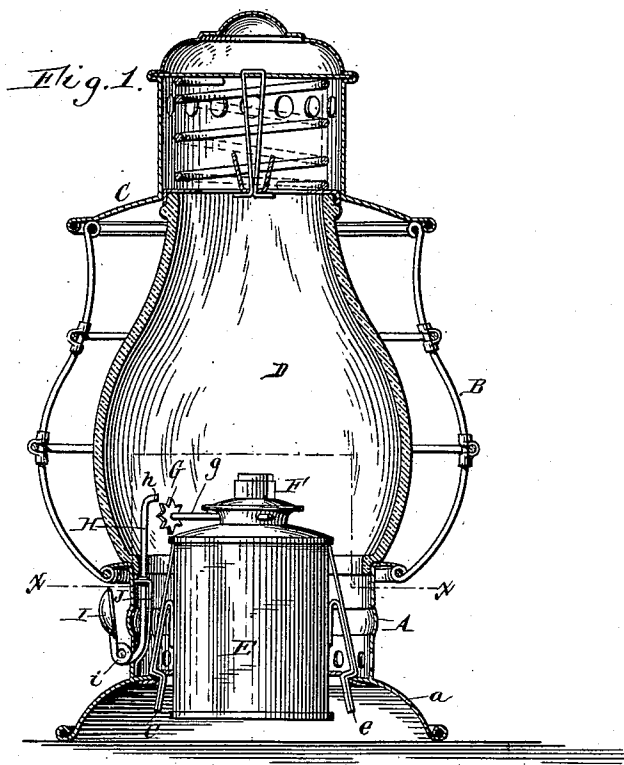


(No Model.)

J. B. MARSTON & J. W. FEENY.
WICK RAISER ATTACHMENT FOR LANTERNS.

No. 464,654.

Patented Dec. 8, 1891.



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UNITED STATES PATENT OFFICE.

JOHN B. MARSTON, OF BUFFALO, AND JOHN WILLIAM FEENY, OF ELMIRA,
NEW YORK.

WICK-RAISER ATTACHMENT FOR LANTERNS.

SPECIFICATION forming part of Letters Patent No. 464,654, dated December 8, 1891.

Application filed August 9, 1890. Serial No. 361,552. (No model.)

To all whom it may concern:

Be it known that we, JOHN B. MARSTON, of Buffalo, in the county of Erie, and JOHN WILLIAM FEENY, of Elmira, in the county of Chemung, and State of New York, citizens of the United States, have invented a new and useful Improvement in Wick-Raiser Attachments for Lanterns, of which the following is a specification.

This invention relates to that class of lantern attachments which permit the wick to be raised by a rotative movement of the oil-pot carrying the wick-raiser shaft in the lantern-body.

The objects of the invention are to afford means for a fine adjustment of the wick, to simplify the construction of the wick-raiser attachment, and to prevent accidental raising and lowering of the wick.

In the accompanying drawings, Figure 1 is a sectional elevation of a lantern provided with our improvements. Fig. 2 is a horizontal section in line *x x*, Fig. 1. Fig. 3 is a sectional elevation of the lower part of the lantern, showing a modified construction of our improved attachment.

Like letters of reference refer to like parts in the several figures.

A represents the lower collar or ring of a lantern-body, provided with the usual base-flange *a*.

B represents the wire guard or frame extending upwardly from the collar A; C, the hinged top, and D the globe.

E represents the detachable oil-pot, secured by springs *e* in the circular opening of the base-flange *a*.

F represents the burner, attached to the oil-pot and provided with a laterally-projecting wick-raiser shaft *g*, which is provided at its outer end with a star-wheel or toothed button G. The latter is located within the lower portion of the globe when the oil-pot is in position in the lantern.

H represents a stop-arm, which is arranged within the lower collar A and extends upwardly on the inner side of the globe to the vicinity of the button G, where it terminates with an inwardly-projecting tooth *h*, which is adapted to come in contact with the button

and turn the same when the oil-pot is rotated within the lantern.

As represented in Figs. 1 and 2, the arm H extends with its lower portion outwardly through the collar A and is provided on the outer side of the collar with a coil *i* and an upwardly-projecting thumb-piece I. This coil forms a stop, which is held snugly against the outer side of the collar by a spring J, secured with its lower end to the inner side of the collar and bearing with its upper end outwardly against the stop arm, whereby the latter is held outside of the circular path in which the button moves when the oil-pot is turned in the lantern, thereby preventing the button from coming in contact with the stop-arm in the normal position of the latter. When it is desired to raise or lower the wick, the thumb-piece I is pressed inward sufficiently to bring the tooth *h* into the path of the button, and the oil-pot is rotated in one or the other direction, so as to bring the button in contact with the tooth, whereby the wick-raiser shaft is turned in the desired direction and the wick is raised or lowered. When the wick has been adjusted, the stop-arm is released and allowed to be returned to its normal position by the spring, so as to prevent interference of the stop-arm with the button when not desired. As the stop-arm is provided with but a single tooth, a very short movement can be given the button by each rotary movement of the oil-pot and a fine adjustment of the wick can be effected, while the button is quickly released from the tooth, thereby preventing further movement of the button after the desired adjustment of the wick has been effected. This prevents the wick-raiser shaft from being turned and the wick from being lowered or raised by the jarring which the lantern receives when standing on the floor of a moving railway-car, which produces a movement of the lantern-frame around the spring-supported oil-pot. The construction of the device is also greatly simplified.

If desired, the stop-arm may be rigidly secured to the lower collar, as represented in Fig. 3, in which figure two stop-arms H' H² are illustrated, one designed to come in con-

tact with the lower side of the button and the other designed to come in contact with the upper side thereof.

We claim as our invention—

5 1. The combination, with a lantern-frame, of an oil-pot capable of rotative movement in the lantern-frame, and provided with a laterally-projecting wick-raiser shaft and a stop-arm attached to the interior of the base of
10 the lantern-frame and provided at its upper end with a single inwardly-projecting tooth adapted to come in contact with the button of the wick-raiser shaft, whereby the wick-raiser button is immediately disengaged from
15 the stop-arm after having been adjusted, substantially as set forth.

2. The combination, with a lantern-frame and an oil-pot capable of rotative movement in the lantern-frame and provided with a laterally-projecting wick-raiser shaft, of a movable stop-arm attached to the base of the lantern-frame and capable of being moved into
20 and out of the path of the wick-raiser shaft, substantially as set forth.

25 3. The combination, with a lantern-frame, of an oil-pot capable of rotative movement

in the lantern-frame and provided with a laterally-projecting wick-raiser shaft, a movable stop-arm attached to the base of the lantern-frame, and a spring whereby the stop-arm is
30 held out of the path of the wick-raiser shaft, substantially as set forth.

4. The combination, with a lantern-frame, of an oil-pot capable of rotative movement in the lantern and provided with a laterally-
35 projecting wick-raiser shaft, a stop-arm pivoted to the base of the lantern-frame and composed of an inner part extending from the pivot upwardly and an outer part provided with a thumb-piece, and a spring whereby the
40 inner part is held out of the path of the wick-raiser shaft, substantially as set forth.

Witness our hands this 5th day of August, 1890.

JNO. B. MARSTON.

JOHN WILLIAM FEENY.

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