

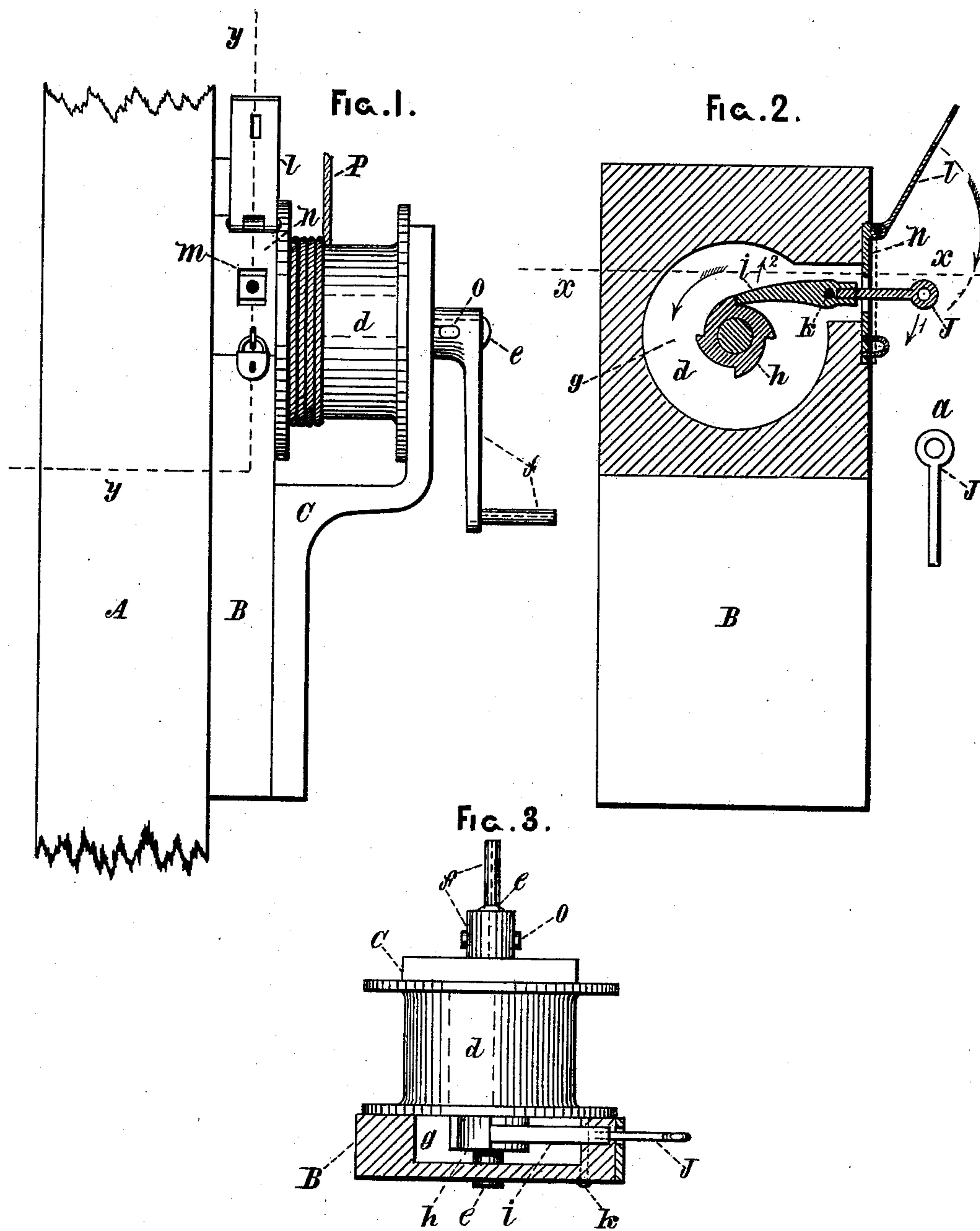
(No Model.)

S. MORSE.

WINDLASS FOR RAISING AND LOWERING LAMPS.

No. 432,545.

Patented July 22, 1890.



WITNESSES:

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SHERBURNE MORSE, OF ARKANSAS CITY, KANSAS.

WINDLASS FOR RAISING AND LOWERING LAMPS.

SPECIFICATION forming part of Letters Patent No. 432,545, dated July 22, 1890.

Application filed November 12, 1889. Serial No. 330,093. (No model.)

To all whom it may concern:

Be it known that I, SHERBURNE MORSE, of Arkansas City, in the county of Cowley and State of Kansas, have invented a new and Improved Windlass for Raising and Lowering Lamps; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

My invention relates to an improvement in windlasses for raising and lowering lamps.

The object of my invention is to provide, in place of the ordinary cleat to which the rope is secured, a simple and cheap hand-windlass, which can be conveniently attached to the lower part of the ordinary supporting lamp-poles or other suitable place for its operation, and provided with locking mechanism whereby it may be made secure against the possibility of being tampered with by mischievous or ill-disposed persons or operated by any one except the person having a key, lever, and crank designed purposely for unlocking and liberating the mechanism by which it is rendered immovable and also actuated.

With these ends in view my invention consists in certain details of construction and combinations of parts set forth in the following specification, and more fully pointed out in the claim.

In the accompanying drawings, Figure 1 is a side elevation of a windlass embodying my improvement and shown as attached to the side of a lamp-pole. Fig. 2 is a rear sectional view of the same, taken in the line *y y*, Fig. 1; and Fig. 3 is a view of the windlass, partly shown in section, taken in the line *x x*, Fig. 2.

A represents a section of the lamp-pole; B, a bracket secured to the side thereof; C, a yoke secured to the side of said bracket; *d*, a winding-drum mounted upon a spindle *e*, the latter journaled in the yoke C and bracket B and provided with a hand-crank *f*, as shown.

Mounted upon that part of the drum-spindle which is within the circular recess *g*, formed in the bracket B, (see Figs. 2 and 3,) is a ratchet-wheel *h*, and adapted to co-operate therewith a pawl *i*, pivotally secured at *k*.

The short end of this pawl is pierced longitudinally, so as to form a socket for the re-

ception of a key J, Fig. 2, said key being shown separately and upon a larger scale at *a*.

Let into the edge of the bracket B, and partly covering the opening in which the pawl is pivoted, is a plate *n*, having a slot *m* to admit of access to the pierced end of the pawl. *l* is a guard-plate hinged or otherwise pivotally secured to the upper part of the plate *n* and adapted, when turned down, to cover and consequently close the key way or slot *m* in the plate *n*, and be secured in position by a padlock, as shown in dotted lines in Fig. 2.

It will be noted that the hand-crank *f* is secured upon the spindle *e* by a pin or spline *o*, which is inserted transversely through the axis of said spindle, so as to project laterally sufficiently far to form a stud or spline on each side thereof, adapted to engage with corresponding slots in the hand-crank, as shown in Fig. 1.

Matters being thus, the operation of my device is as follows, the hand-crank being removed and the guard-plate locked: When it is required to lower the lamp, the hand-crank is slipped onto the spindle into the position shown in Fig. 1. The padlock is then removed and the guard-plate *l* turned back, so as to give access to the pawl. The key J is then inserted in the hole in the end of the pawl, as shown in Fig. 2, and depressed, as indicated by arrow 1. This elevates, as shown by arrow 2, the forward end of the pawl, which is in engagement with the ratchet-wheel *h*, allowing the drum *d* to revolve backward, and by unwinding the cord *p* lowers the lamp. To raise the latter, the key J is withdrawn from the pawl and the drum rotated in the opposite direction, and is secured against return by the engagement of the pawl with the teeth of the ratchet-wheel. When the lamp has been drawn up to the required height, the hand-crank is removed and the guard-plate turned down over the opening or keyway *m*, thus rendering it impossible for any one to operate the windlass without having the hand-crank, the key J, and the key to the lock.

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

A raising and lowering device for lamps, comprising a windlass and rope, a bracket

B, a yoke C, a spindle *e*, journaled in said bracket and yoke and having secured thereon a drum *d*, a ratchet-wheel *h* and pawl *i*, inclosed within a recess in the bracket, the
5 pawl being adapted for the reception of a key J, the plate *n*, having an opening for the admission of said key, a guard-plate and lock for protecting said plate *n*, and a hand-crank
10 upon the spindle *e* by a pin or spline engag-

ing with corresponding slots or notches in the hand-crank, substantially as and for the purpose herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 26th day of 15 September, 1889.

SHERBURNE MORSE.

Witnesses:

F. M. STRONG,

E. D. EDDY.