(No Model.)

J. L. EBERT.

BLOCK AND TACKLE.

No. 454,962. Patented June 30, 1891.

Fig. 1.

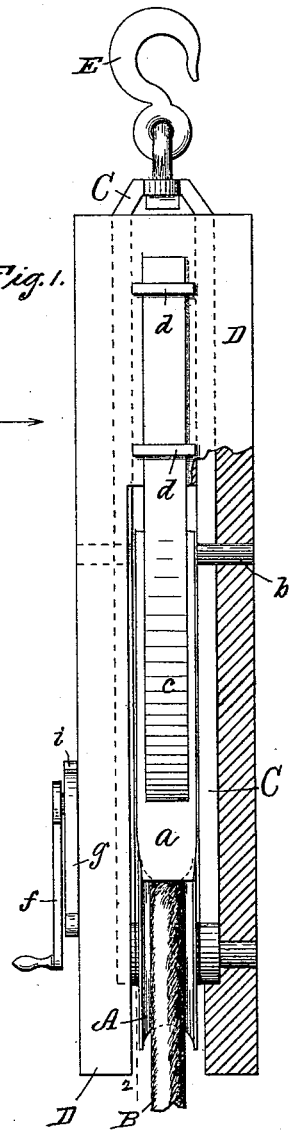


Fig. 2.

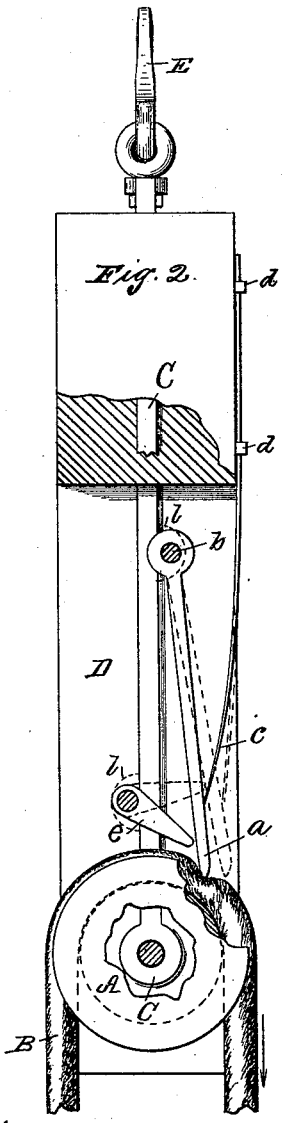


Fig. 3.

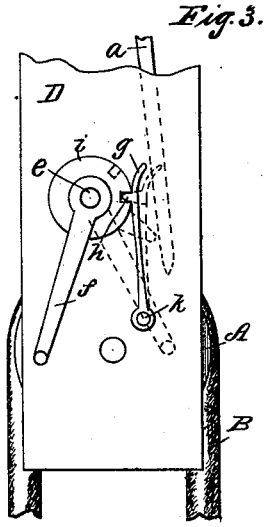
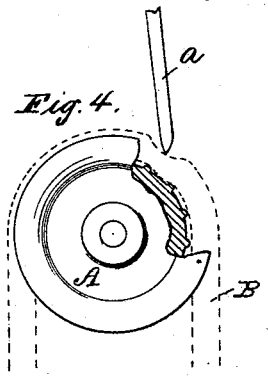


Fig. 4.



Attest:
M. L. McDermott.
J. Le. Hackett.

Inventor
John L. Ebert.
By E. B. Whitmore, Atty.

UNITED STATES PATENT OFFICE.

JOHN L. EBERT, OF FARMINGTON, NEW YORK.

BLOCK AND TACKLE.

SPECIFICATION forming part of Letters Patent No. 454,962, dated June 30, 1891.

Application filed February 9, 1891. Serial No. 380,746. (No model.)

To all whom it may concern:

Be it known that I, JOHN L. EBERT, of Farmington, in the county of Ontario and State of New York, have invented a new and useful Improvement in a Block and Tackle, which improvement is fully set forth in the following specification and shown in the accompanying drawings.

My invention is a block and tackle, constructed so that the pulling rope or chain will be caught and held at the proper time, to the end that the load being lifted or moved may be held from going back when the rope or chain is slackened.

The invention is hereinafter fully described, and more particularly pointed out in the claim.

Referring to the drawings, Figure 1 is a front elevation of the device with a part of the body longitudinally sectioned. Fig. 2 is a side elevation, seen as indicated by arrow in Fig. 1, parts being sectioned as on the dotted line 2 in Fig. 1. Fig. 3 is a side elevation of a part at the lower end of the device, better showing the detent; and Fig. 4, a modification of the form of the pulley with a part broken away.

Referring to the parts shown, A is a pulley for a chain or rope B, supported in a forked iron holder C. This iron holder is preferably held in a wooden body D, and provided at its upper end with a swivel-hook E of ordinary construction.

a is a holding latch or catch for the rope or chain held in the space in the body upon a transverse pin *b* above the pulley in position to have its lower free end swing laterally toward the pulley near its upper part.

c is a spring held by fasteners *d d* inserted in the body, bearing upon the latch in a manner to press the latter against the rope.

e is a lifter for the latch resting in the opening or space in the body and provided with an operating-handle *f* at the side of the body. By slightly turning the handle, as from the full-line position to the dotted-line position shown in Fig. 3, the lifter is brought to the position shown in dotted lines in Fig. 2, in which it raises the latch clear from the rope, this being effected against the action of the spring *c*.

g is a detent for the lifter formed with a tooth *h* to enter a notch in the disk *i* of the lifter. The detent is held to the body upon a pin *k*, as shown in Fig. 3.

The body D is preferably made in parts and put together to inclose the iron holder C, as shown.

Now in using this device if a weight is to be lifted—for instance, by a succession of separate or independent pulls upon the rope—the weight is secured to the left-hand part of the rope appearing in Fig. 2, and the pulling is done upon the right-hand part of the rope. When a downward pull is made upon the rope by the hand, the rope glides freely under the end of the holding-latch; but the moment the pull ceases or the rope is released or slackened and starts back it is caught by the holding-latch, which, swinging inward, presses the rope against the pulley, as indicated. Should it be wished to free the rope so as to let the latter run back, the lifter *e* is turned against the latch, as above described, to lift the latter clear from the rope. The detent *g* serves to hold the lifter normally out of the way of the latch, so that the latter may be free to act upon and hold the rope.

This device serves equally well when made of small parts for light work done by hand or when made heavier and strong for heavy work in which a team, for instance, is employed to pull upon the rope for lifting heavy weights, or for doing other heavy work about buildings and the like.

This device may also be employed where a series of pulleys are used, as well as where but one is used, as shown in the drawings.

When the iron holder C is formed with lugs *l* (shown in dotted lines in Fig. 2) to hold the pin *b* of the latch and the lifter, the wooden body D may be dispensed with, the spring *c* being secured to some convenient part of the holder C.

What I claim as my invention is—

A block and tackle consisting of a body, a

pulley within the body to hold the rope, a pendent catch for the rope, a spring to press the catch, a lifter for the catch, held by the body and having a part within the body to press the catch, and a notched part and handle without the body, and a toothed detent for the lifter to engage the notched part of the lifter, substantially as shown.

In witness whereof I have hereunto set my hand this 27th day of January, 1891, in the presence of two subscribing witnesses.

JOHN L. EBERT.

Witnesses:
ENOS B. WHITMORE,
M. L. MCDERMOTT.