

(No Model.)

T. R. FERRALL.
SNATCH BLOCK.

No. 560,134.

Patented May 12, 1896.

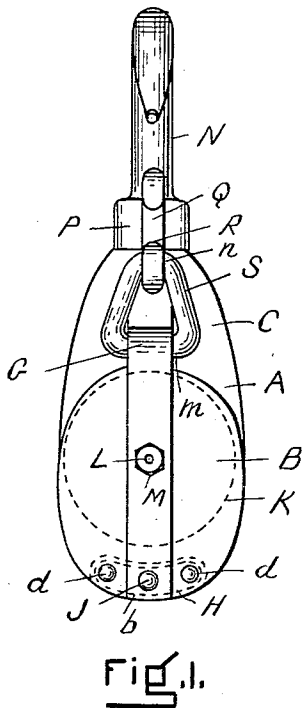


Fig. 1.

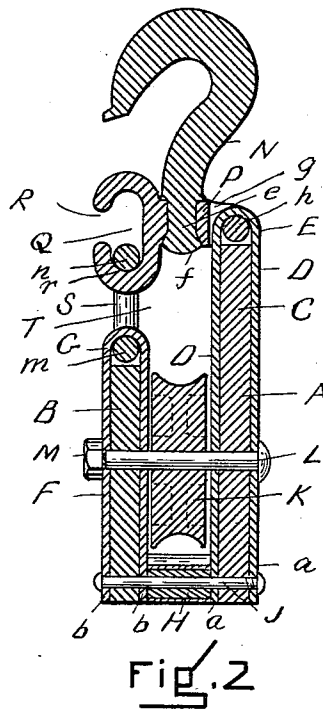


Fig. 2.

WITNESSES

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THOMAS R. FERRALL, OF TORRINGTON, CONNECTICUT.

SNATCH-BLOCK.

SPECIFICATION forming part of Letters Patent No. 560,134, dated May 12, 1896.

Application filed October 29, 1894. Serial No. 527,345. (No model.)

To all whom it may concern:

Be it known that I, THOMAS R. FERRALL, of Torrington, in the county of Litchfield and State of Connecticut, have invented certain new and useful Improvements in Snatch-Blocks, of which the following is a full, clear, and exact description.

This invention consists of a new and simple locking device for a snatch or pulley block constructed and arranged for operation, all substantially as hereinafter fully described, reference being had to the accompanying sheet of drawings, in which is illustrated a snatch-block having this locking device applied thereto in accordance with this invention.

Figure 1 is a front end view, and Fig. 2 a vertical central section.

In the drawings, A represents the block, of which B is the front or short cheek, and C the rear or long cheek, preferably made of wood.

D is a metal strap bent over and closely fitting over the cheek C, its folded portion extending above the cheek sufficiently to make a loop E to connect with the pivot of the head and its ends *a* extending down to the end of the cheek.

F is another metal strap bent over and closely fitting the other cheek B of the block, its folded portion extending sufficiently above the cheek to form a loop G for the fastening-link and its ends *b* extending down to the end of the cheek.

Between the lower ends of the two cheeks of the block is an end piece H of the required thickness, secured in place by two rivets *d* passing through the cheeks and end piece, and a rivet-bolt J passing through the two straps, cheeks, and end piece, securing all together rigidly, as shown in section in Fig. 2.

K is the pulley or sheave, and it is arranged to turn freely on a bolt-pin L, which passes through the two cheeks and strap, and is secured therein by the screw-nut M.

N is the hook, and its lower portion *e* extends through the head P, to which it is riveted, as at *f*, and this head has an opening *g* in its rear side which is disposed over the loop E of the bow-strap C, a pivot *h* of the head extending through the loop forming a hinge on which the head can swing. The front part of the head has a vertical cross-slot Q through it,

having an opening R to the outside, making substantially a C-shaped hook and the locking device for the block.

S is a link, its lower part *m* being disposed in the bow-strap loop G, making a hinge by which it can swing up and down, its upper portion *n* being arranged when the head is in proper position to pass through its slot-opening R into the slot Q and with the hook N in its upright position for use the upper part of the link will then be disposed in the bottom part *r* of the slot of the head below the opening, and in such position the link is locked and the snatch-block is ready for use, as shown more particularly in Fig. 2 in section.

To open the block to insert the rope, swing down forward the hook N until the opening or mouth R of the C-shaped locking device is opposite the part *n* of the link, when it can be swung out therethrough, leaving the opening T of the snatch-block free for the insertion of the rope, which after insertion can be secured from accidental escape by swinging up the link and passing its portion *n* through the opening into the slot Q in the head and then swinging up the hook, it bringing the bottom *r* of the slot up against the link, locking the link therein, and, as in use the hook would be always upright, the link would be below the opening R of the slot, and thus the link prevented from escape or becoming unlocked from the hook.

The link can be made of any desirable form, and it and the hook can be hinged to the block in any suitable manner.

In lieu of a hook N to the head an eye therein or any suitable fastening or holder can be used.

Obviously this invention is applicable to a pulley-block as well as a snatch-block.

This locking device is simple in construction, easy and convenient of operation, and one that can be made at a very small cost and perfectly secure, as the peculiar fastening device of the C-shaped hook insures that its engagement with the link will be maintained at all times whatever the position the block and its hook proper assumes when in practical use.

Having thus described my invention, what I claim is—

In a snatch or pulley block, a head, a C-shaped locking device on one side, a hook se-

cured thereto, a bow-strap on one cheek of the block to which the head is hung, a bow-strap on the other cheek of the block, a link hung to the latter bow-strap and adapted to engage with the C-shaped locking device, and a bolt passing through the bow-straps and cheeks securing all together rigidly at the bottom.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

THOMAS R. FERRALL.

Witnesses:

CHAS. L. MCNEIL,
J. EVERETT ALDEN.