

(No Model.)

A. UREN.
SNATCH BLOCK.

No. 471,755.

Patented Mar. 29, 1892.

Fig. 2.

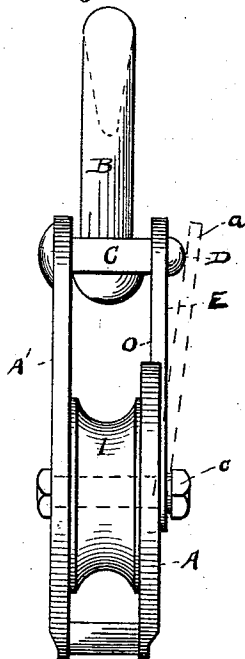


Fig. 1.

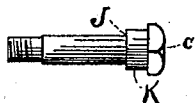
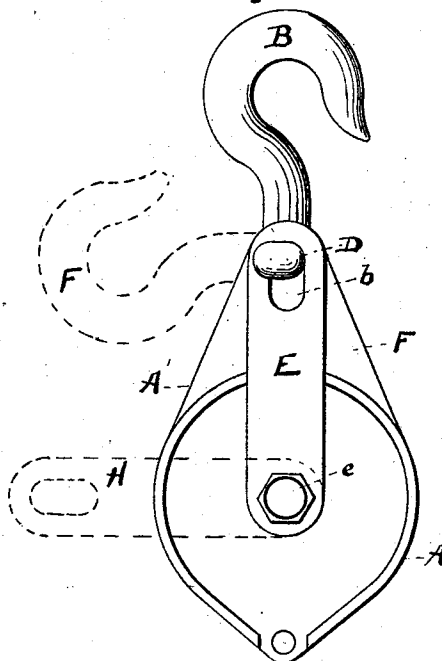


Fig. 3.

WITNESSES

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SNATCH-BLOCK.

SPECIFICATION forming part of Letters Patent No. 471,755, dated March 29, 1892.

Application filed May 4, 1891. Serial No. 391,593. (No model.)

To all whom it may concern:

Be it known that I, ANDREW UREN, a citizen of the United States, residing at Seattle, in the county of King and State of Washington, have invented a new and useful Improvement in Snatch-Blocks, of which the following is a specification.

My invention relates to that class of snatch-blocks which have one side partly open for the ready insertion or removal of the rope.

My invention consists in details of construction described below and illustrated in the accompanying drawings.

In the drawings, Figure 1 is a side view of the block. Fig. 2 is an edge view of the same. Fig. 3 is a detail drawing of the sheave bolt or pin, showing the double head thereon.

Similar letters refer to similar parts throughout the several views.

In the drawings, A and A' represent the sides or cheeks of the block.

A' represents the closed side or cheek pivoted to the cross-head C and extending the entire length of the block. The other side or cheek (represented by A) does not extend to the cross-head C, but leaves an opening above the sheave O, Fig. 2, which, when uncovered, allows the rope to be quickly inserted or withdrawn, as required. B is the hook, to which is fastened the cross-head C, turning with the hook. The cross-head C passes through the closed side or cheek A' and turns freely on the same. The other end of the cross-head has a lug or ear D so placed that the longest axis of said lug is at right angles to the longest axis of the hook and block when the two latter are in line.

I is the sheave. The sheave-bolt (see Fig. 3) has a shoulder at J, and is then continued with a slightly-larger diameter from said shoulder J to the head of the bolt c. (See K, Fig. 3.)

E is a swinging strap connecting the sheave-bolt with the cross-head and used to open or close the opening O. The sheave-bolt, Fig. 3, passes through the lower end of said swinging strap E and through the sides of the block, carrying on it the sheave I. The shoulder J of the sheave-bolt comes flush against the side or cheek A, and it is held on the other side by an ordinary screw and nut. It thus serves to bind the sides of the block together,

but allows the part of the bolt having a larger diameter (marked K, Fig. 3) to be entirely outside of the side A of the block. The strap E swings on this part of the bolt marked K, but with sufficient play to allow the top of said strap to be moved outward, so as to pass clear of the lug D on the cross-head C, as shown by the dotted lines at a in Fig. 2. The upper end of the swinging strap E is provided with an oblong opening or slot b sufficiently large to allow the lug D to pass through said opening b when the hook B is turned downward to the position shown by the dotted lines at F.

It will now be seen that when the block is closed, as shown in Fig. 1, in order to open it to insert or withdraw a rope it is only necessary to drop the hook B to the position shown by the dotted lines at F. This brings the lug D in line with the slot b in the strap E, and allows said strap to be passed outward, so as to clear the lug (see dotted lines at a, Fig. 2) and to swing to one side, as shown by the dotted lines at H in Fig. 1. The rope can then be passed through the opening O.

The block is securely closed by bringing the strap E to its former upright position, passing it over the lug D, and swinging the hook B into line with the block. The strap E is then held securely by the lug D, as shown in Fig. 1.

I am aware that prior to my invention snatch-blocks have been made with swinging straps to open and close the openings in such blocks, and also that snatch-blocks have been made provided with an ear or lug to lock and unlock the mechanism used to open and close the openings therein, and therefore I do not claim either of the above combinations, broadly; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

1. In a snatch-block having its sides or cheeks immovable and having one side partly open for the insertion or withdrawal of the rope, the combination of a rotatable hook and a sheave-bolt having an extension beyond the side of the block with a swinging strap E, pivoted at its lower end on said extension of the sheave-bolt, so as to have longitudinal play thereon independent of any movement of the side of the block, and hav-

ing at its upper end an oblong slot, so placed
that said strap can be passed back and forth
over the end of the cross-head carrying the
rotatable hook and adapted to be locked or
5 unlocked by the movement of the hook, car-
rying with it the cross-head and lug, sub-
stantially as set forth.

2. In a snatch-block having one side partly
open, substantially as shown, the combina-
10 tion of a sheave bolt or pin passing through
the block and carrying the sheave, said bolt
being provided with a shoulder J, forming an
enlarged extension at one end thereof, with a

strap pivoted on said enlarged extension of
the bolt, so as to have longitudinal play there- 15
on, and thus permit said strap to be moved to
open and close the opening in said block, sub-
stantially as set forth.

In testimony whereof I have signed this
specification in the presence of two subscrib- 20
ing witnesses.

ANDREW UREN.

Witnesses:

ARTHUR I. FONDA,
GEO. KINNAR.