

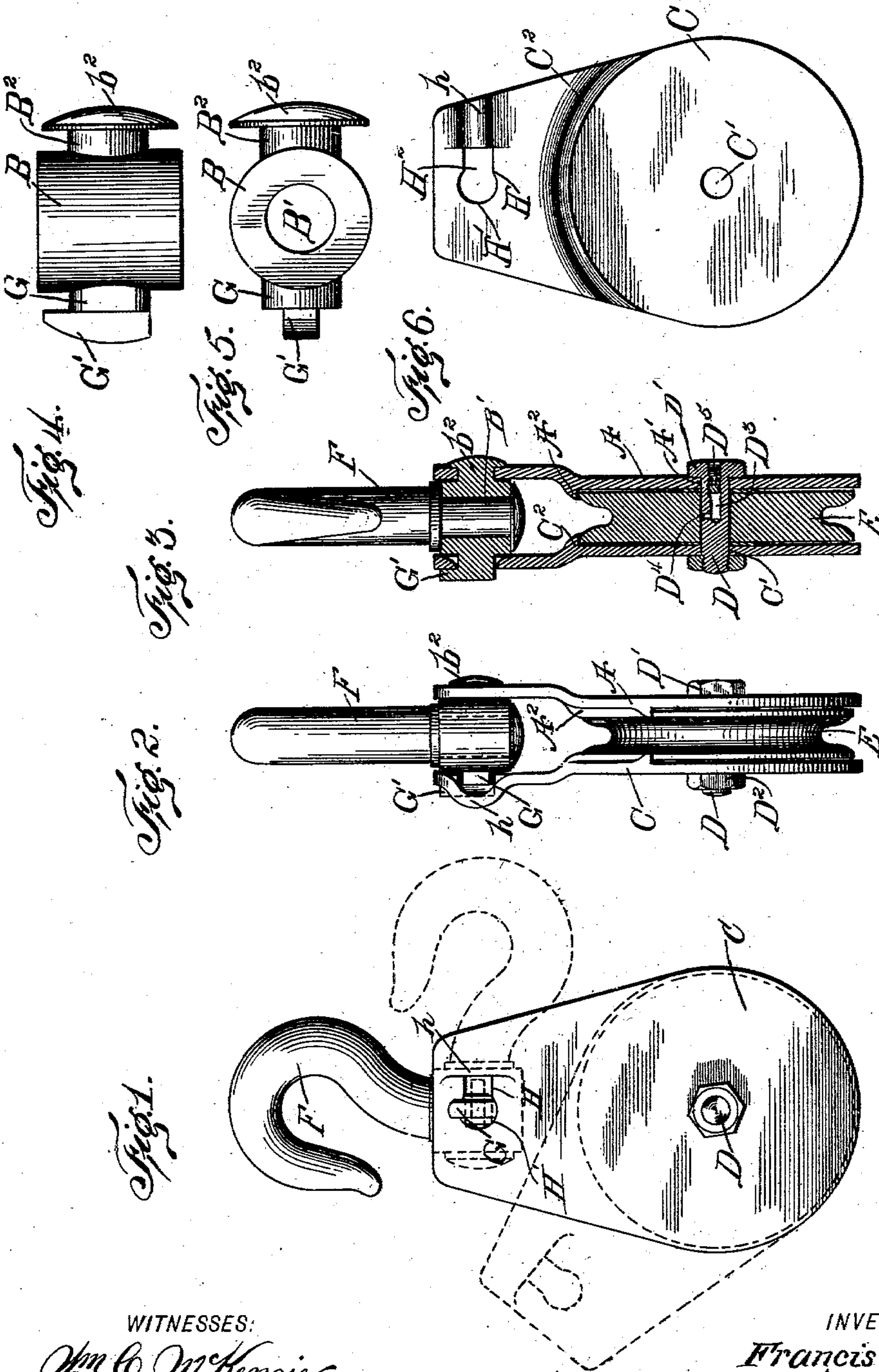
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PATENTED NOV. 10, 1903.

F. M. EBY.  
SNATCH BLOCK.

APPLICATION FILED APR. 8, 1903.

NO MODEL.



WITNESSES:

Wm C. McKenzie  
Perry B. Turpin

INVENTOR

Francis M. Eby.

BY Munroe & Co.,

ATTORNEYS.



# UNITED STATES PATENT OFFICE.

FRANCIS MARION EBY, OF COTTAGEGROVE, OREGON, ASSIGNOR TO PACIFIC  
TIMBER COMPANY, OF COTTAGEGROVE, OREGON.

## SNATCH-BLOCK.

SPECIFICATION forming part of Letters Patent No. 743,840, dated November 10, 1903.

Application filed April 8, 1903. Serial No. 151,570. (No model.)

*To all whom it may concern:*

Be it known that I, FRANCIS MARION EBY, a citizen of the United States, and a resident of Cottagegrove, in the county of Lane and State of Oregon, have made certain new and useful Improvements in Snatch-Blocks, of which the following is a specification.

My invention is an improvement in snatch-blocks, particularly in that class of snatch-blocks which are designed to open by displacing one of the side plates of the block-frame; and the invention consists in certain novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a side view of a block embodying my invention. Fig. 2 is an edge view thereof, and Fig. 3 is a longitudinal section of the block. Fig. 4 is a side elevation, and Fig. 5 a top plan view, of the trunnion cross-head; and Fig. 6 is a side view of the swinging jaw of the block.

The block, as shown, comprises the frame-plates, consisting of the main jaw A, which is permanently connected with the cross-head B, and the swinging jaw C, which is detachably connected with the swinging cross-head by means of the lug or head on the cross-head, as presently described. The jaws A and C are provided centrally with openings A' and C' for the axle-pin D, which supports the pulley E, as shown in Fig. 3 of the drawings. This pin D has a head D' at one end and is threaded at its other end to receive the nut D<sup>2</sup> and is provided with a bore D<sup>3</sup>, formed from one end to receive the lubricant, and provided with a channel D<sup>4</sup>, leading to the bearing of the pulley E, a plug D<sup>5</sup> being threaded in the bore D<sup>3</sup>, so it may be turned into said bore to force the lubricant out of said bore and through the channel D<sup>4</sup> to the bearing of the pulley E. It will be noticed the plug D<sup>5</sup> does not project beyond the end of the pin D, so there is no unnecessary projection on the side of the block.

The jaws A and C are provided on their inner faces at A<sup>2</sup> and C<sup>2</sup> with a projection or bead, which laps over the edge of the pulley or sheave and operates to force the rope to its position in the groove of the pulley, thus preventing such rope from becoming jammed

between the jaws and the block in the operation of the device.

The cross-head B is provided centrally at B' with a bearing for the hook or other connection F, which is swiveled in the cross-head, as shown in Figs. 2 and 3. This cross-head B is provided on one side with the trunnion B<sup>2</sup>, on which the jaw A may be permanently held by the head b<sup>2</sup>, so the cross-head may swing in the opening of the jaw A, as will be understood from Fig. 3 of the drawings. The cross-head is also provided with a trunnion G diametrically opposite the trunnion B<sup>2</sup> and provided at its outer side with the projecting hook-like lug or head G', as shown in Figs. 2, 3, and 4 of the drawings. The jaw C is provided with a keyhole-slot H, having the inner circular portion H', to receive the trunnion G, so the latter may readily turn in the jaw C, and the entering wing H<sup>2</sup>, through which the head G' of the trunnion G may escape when the cross-head is turned to the dotted-line position indicated in Fig. 1 to open the block. The jaw C is also provided with a connecting strap or bar h, extending over the outer end of the wing H<sup>2</sup> of the keyhole-slot H and curving or arching outwardly, as best shown in Figs. 2 and 6, to permit the passage of the hook-like head G' of the trunnion G in adjusting the jaw from the position shown in full lines, Fig. 1, to the dotted-line position in said figure, or vice versa, in the use of the block. In such operation it will be noticed the strap or bar h forms a guide for the head G' and at the same time permits the adjustment of the swinging jaw into and out of engagement with the cross-head and braces the slotted end of the swinging jaw, so the same can be made sufficiently strong to sustain the weight in the operation of the device.

It will be noticed, especially from Fig. 1, that when the trunnion cross-head is in position for use the hook-like lug or projection G' will overlap the jaw C, and the said jaw will be held securely in operative position, as shown in full lines in Fig. 1. If, however, the trunnion be turned to the position indicated in dotted lines, Fig. 1, the jaw C may then be adjusted, as indicated in dotted lines, said figure, to open position to permit the intro-



duction and removal of the rope as may be desired.

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

1. The improvement in snatch-blocks herein described comprising the cross-head provided with the opposite trunnions one of said trunnions being provided at its outer end with a projecting hook-like lug or head G', the main jaw provided with an opening for one of the trunnions of the cross-head and with an opening for the pulley-pin and having on its inner side a projection or bead to overlap the edge of the pulley to guide the rope to the groove of the pulley, the swinging jaw having an opening for the pulley-pin, provided on its inner face with a bead or projection to overlap the pulley and having at its swinging edge a keyhole-slot to receive the hook-like lug or projection on the trunnion of the cross-head and provided with an outwardly curved or arched strap or bar extending over the open end of the entering wing of the keyhole-slot, the pulley, and the pulley-pin fitting in the openings of the jaws and provided with a longitudinal bore for the lubricant and with a channel leading therefrom to the bearing of the wheel and with a plug operating in said bore to force the lubri-

cant through the channel substantially as described.

2. The combination of the cross-head having the trunnion for the main jaw and the opposite trunnion for the swinging jaw, the latter trunnion being provided with the hook-like lug or head G', the swinging jaw provided at its swinging end with a keyhole-slot to receive the hook-like lug or head of the cross-head and with a bracing strap or bar crossing the entering wing of said slot and projecting or arching outwardly to afford a passage for the hook-like lug of the cross-head trunnion, and the pulley carried by said jaws substantially as set forth.

3. A snatch-block comprising the pulley, the jaws supporting the pulley, one of said jaws being provided at its swinging end with a keyhole-slot and with an outwardly curved or projecting strap or bar over the entering wing of said slot and the cross-head having trunnions connected with the jaws and one of said trunnions being provided with a hook-like lug or head to operate in the said keyhole-slot in the jaw, substantially as set forth.

FRANCIS MARION EBY.

Witnesses:

F. H. ROSENBERG,  
D. MCCARTHY.