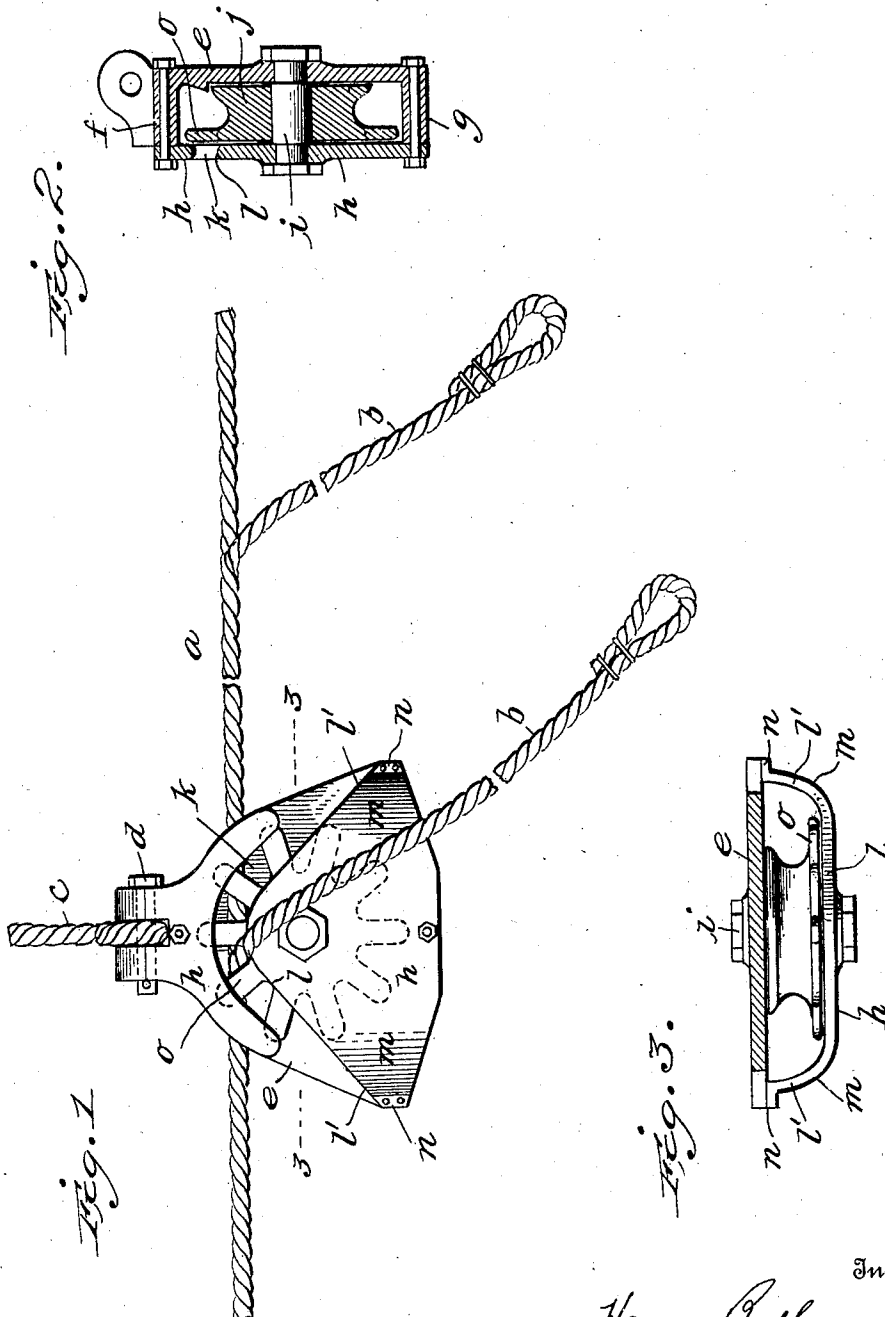


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PULLEY BLOCK.
APPLICATION FILED OCT. 18, 1908.

972,254.

Patented Oct. 11, 1910.



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UNITED STATES PATENT OFFICE.

HARRY ROTH, OF WAYNESVILLE, NORTH CAROLINA.

PULLEY-BLOCK.

972,254.

Specification of Letters Patent.

Patented Oct. 11, 1910.

Application filed October 18, 1909. Serial No. 523,352.

To all whom it may concern:

Be it known that I, HARRY ROTH, a citizen of the United States, and a resident of Waynesville, in the county of Haywood and State of North Carolina, have invented certain new and useful Improvements in Pulley-Blocks, of which the following is a full clear specification, reference being had to the accompanying drawings, in which—

Figure 1 is a side elevation of my improved block showing the manner in which the hauling cables pass through the block; Fig. 2 a vertical sectional view of the block; and Fig. 3 a horizontal section on the line 3—3 of Fig. 1.

The object of this invention is to so construct the block that it shall be especially adapted for use in cable systems for hauling logs and other materials. In these cable hauling-systems it is usual to employ a main-cable and suitable machinery for pulling it back and forth through the suspended pulley blocks and to attach to the main cable by splicing or otherwise a series of shorter secondary or branch cables to the free ends of which are attached means for grappling the logs or other objects to be hauled.

The special object of the present invention is to so construct the pulley block that the secondary cables shall be permitted to pass freely back and forth through a slot in one of the side plates of the block as these secondary cables are drawn back and forth past the block and thereby avoid the delay and trouble of detaching each secondary cable from the main cable when it reaches a block and reattaching it to the main cable at a point beyond the block, as more fully herein-after set forth.

In the drawing, *a* designates the main cable and *b* the secondary cables spliced thereto.

The letter *c* designates the cable or link for suspending the block, being connected to the block by a horizontal pin *d* extending removably through an eye at the upper end of the block.

The block consists of a back wall *e*, top wall *f*, bottom wall *g*, front wall *h* and a shaft or axle *i* connecting the front and back walls and affording a journal for the grooved pulley *j*. The front wall is divided transversely into two sections by a slot

k which begins at a point below the pulley axis and curves up over the axle, the lower edge *l* of the slot lying approximately coincident with the groove in the face of the pulley, as shown most clearly in Fig. 2. The lower section of the front wall *h* has its end portions *m* bent backwardly on a curve and secured to the back wall at *n*, so that at each side of the pulley the lower edge *l* of the slot extends downwardly and curves backwardly to the back plate, thus forming a cam-like edge *l'* below the entrance or mouth portion of the slot at each side of the pulley. The outer face of the pulley *j* is extended to form radial teeth or fingers *o* which are spaced apart a sufficient distance to receive a secondary cable between each pair of adjacent teeth and are long enough radially to extend across the slot *k* as the pulley rotates.

It will be observed that as the main cable runs back and forth through the block in the usual manner, that is, resting in the groove in the pulley, the depending secondary cables will when they reach the block strike against either one of the cams *l'* and be directed up over the cam edge *l* and out through the slot at the opposite side of the pulley. As the secondary cable is drawn up into the slot it engages in the space between two of the teeth *o*, as shown in Fig. 1, and these teeth prevent the main cable being pulled off the pulley out through the slot.

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

1. A pulley block for the purpose described, consisting of front and back walls, a pulley journaled therebetween, the front wall extending beyond the pulley at each side and having a slot extending entirely across it, said slot curving up over the axis of the pulley, and thus forming a cam edge at each entrance to the slot, means being provided on the pulley to prevent the main cable being drawn out through the slot while the secondary cables are passing through the slot.

2. A pulley block for the purpose described, consisting of a back wall and means for suspending the block, a front wall having a slot entering at each side and extending up over the axle of the pulley to form a cam edge at each entrance to the slot, the op-

posite ends of the lower or cam edge of this slot at points beyond the pulley at each side extending downwardly and backwardly to the back plate, a pulley journaled between the front and back walls, and means for preventing the main cable being pulled out through the slot by the secondary cables.

In testimony whereof I hereunto affix my signature in the presence of two witnesses this 11th day of October, 1909.

HARRY ROTH.

Witnesses:

G. W. MASLIN,
WILEY LONG.