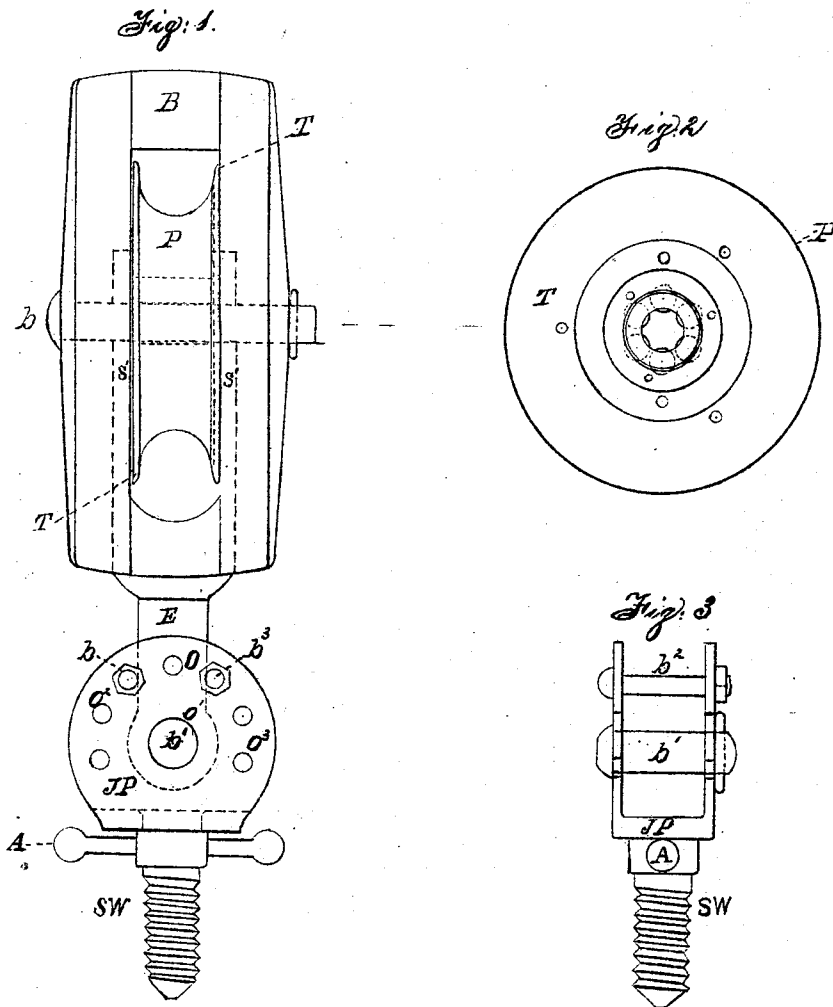


J. C. COTTINGHAM.

Improvement in Pulley Block.

No. 124,253.

Patented March 5, 1872.



WITNESSES

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JOHN C. COTTINGHAM, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN PULLEY-BLOCKS.

Specification forming part of Letters Patent No. 124,253, dated March 5, 1872.

Specification describing certain Improvements in "Leading or Dock Blocks," invented by JOHN C. COTTINGHAM, of Philadelphia, county of Philadelphia and State of Pennsylvania.

The nature of my invention relates to the eye, graduated jaws, and swivel-screw, so as to throw the block in any desired angle.

Figure 1 is a front elevation of my invention. Fig. 2 is a detached and side view of the pulley. Fig. 3 is a detached and front view of the graduated jaws and swiveled screw.

B is an ordinary pulley-block, which should be substantially constructed, pivoted in the usual manner by a bolt, *b*. Passing through the cheeks from the outside of the block is the pulley P, the body of said pulley being formed of any hard wood, and has secured on its sides two circular brass plates, T and T'. These plates are slightly beveled on their edges so as to conform to the curvature of the body of the pulley, and extend above it in order to properly sink the rope. Secured to the under part of the block B, by means of straps S and S' or otherwise, is an eye, E, provided with circular openings O and O¹, secured to the eye E by means of the bolt *b*¹. Passing through the opening O¹ is a semicircular graduated jaw-piece, J P, provided with a series of circular openings, O², O³, &c., in order to receive the bolts *b*² and *b*³, to regulate the play of the eye E and give the block B the angle desired. On the under part of the jaw-piece J P is placed and secured a swiveled screw, S W, provided with an arm, A, for screwing the same in place. The bolts *b*, *b*¹, *b*², and *b*³ are secured properly in position by means of pins or nuts, as may be desired.

In placing the block in position and operating the same the screw S W is drawn down into the wood by turning the arm A until firmly secured. The pin E is now regulated, according to the angle desired to have the block, by means of the bolts *b*² and *b*³ passing through openings O², O³, &c., as required. The fall or leading rope, passing over the pulley, will draw the block at any angle desired, according to the direction of the strain, and the pressure of the rope, whatever there should be, will come against the plates T and T', thus causing very little friction, no wear or tear upon the block itself, or no danger of chipping, breaking, or chafing of the pulley.

If desired, the eye, graduated jaws, and swiveled screw for throwing the block to any desired angle can be reversed on the block—that is to say, the graduated jaws attached to the block, and the eye secured to the swiveled screw, and the same result obtained.

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

1. The combination of the graduating-jaw with a swivel-screw and the metallic-plated pulley or sheave, as herein described, and for the purpose set forth.

2. The arrangement of the eye E, graduated jaws J P, openings O², O³, &c., bolts *b*, *b*¹, *b*², and *b*³, swiveled screw S W, and arm A, so as to operate substantially as and for the purpose specified.

JOHN C. COTTINGHAM.

Witnesses:

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