(No Model.)

F. E. YOUNG.

HOISTING TACKLE.

No. 524,015. Patented Aug. 7, 1894.

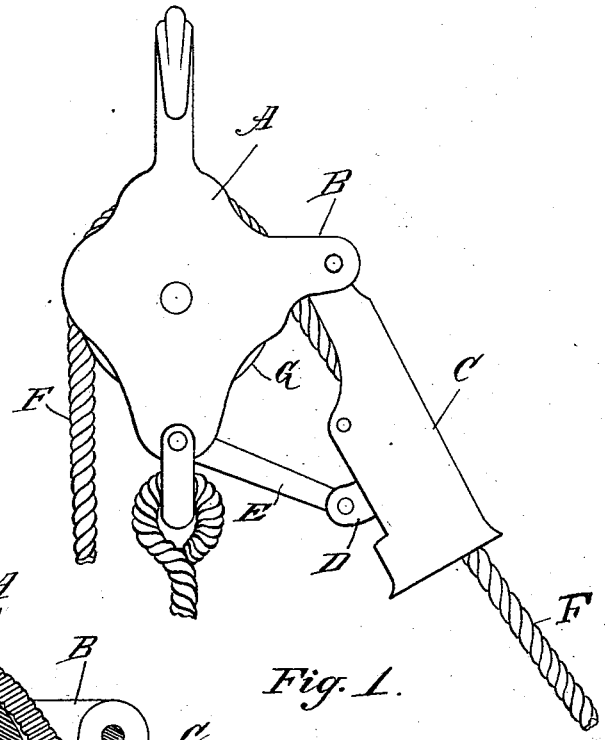

Fig. 1.

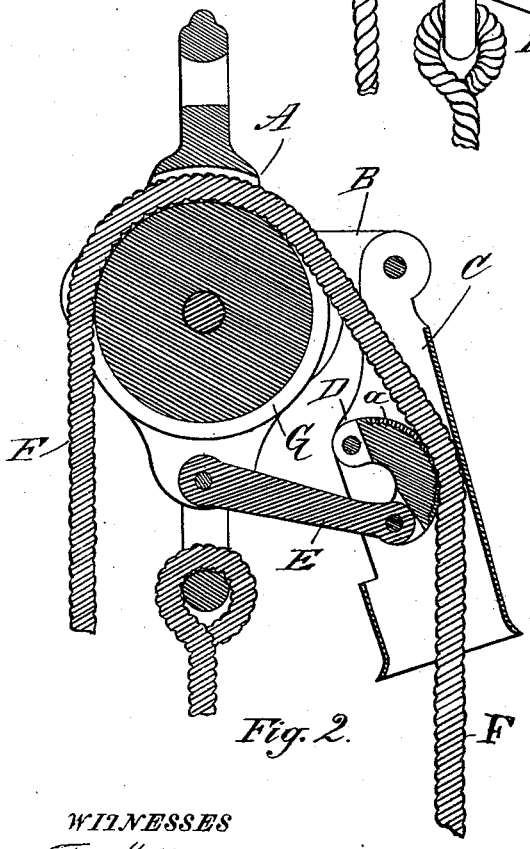

Fig. 2.

WITNESSES

Theo. Miller

Burt A. Miller

INVENTOR

Frank E. Young

By

W. K. Miller

Attorney.

UNITED STATES PATENT OFFICE.

FRANK E. YOUNG, OF CANTON, OHIO.

HOISTING-TACKLE.

SPECIFICATION forming part of Letters Patent No. 524,015, dated August 7, 1894.

Application filed December 11, 1893. Serial No. 493,321. (No model.)

To all whom it may concern:

Be it known that I, FRANK E. YOUNG, a citizen of the United States, and a resident of Canton, county of Stark, State of Ohio, have invented a new and useful Improvement in Hoisting-Tackle, of which the following is a full, clear and exact description, reference being had to the accompanying drawings, making part of this specification.

My invention relates to an improvement in hoisting tackle, the object of which is to provide a tackle that can be operated by one person and locked at any desired point of elevation.

With these objects in view, my invention consists of certain features of construction and combination of parts as will be hereinafter described and claimed.

Figure 1, of the accompanying drawings is a side elevation of a hoisting tackle, illustrating my invention, and Fig. 2, a vertical section of same, showing detail of construction.

Referring to Fig. 1, A represents a pulley block, having an arm as B, projected therefrom, to which is pivotally secured a hollow arm C, open at one side as shown, which serves as a rope guide, as well as a part of the locking mechanism. To this arm C, is pivotally secured at the open side, a circular cam D, having in its outer face, serrations as *a*, the free end of the cam is connected with the block A, by a link E.

The hoisting rope F is passed through the tubular portion of the arm C, between the cam and the inside face of the arm and over the pulley G, in the block and down to the lower block (not shown), in the usual way.

Fig. 2, represents the parts in locked position, the arm C drawn down and toward the block A, the cam D resting against the rope F, the weight of the load serving to draw the cam D harder against the rope, thus locking the parts, and the load from descent.

In operation, to raise the load, the rope is swung out and from the block as it is drawn down. To raise the load, swinging the arm C out, thereby releasing the rope from the cam, the rope is then drawn down a distance, and drawn in toward the block, drawing down the arm C and rope against the cam, locking the parts as shown, while the operator releases his hold of the rope for a new catch.

Having thus fully described the nature and object of my invention, what I claim is—

1. The combination with the sheave carrying block, of an arm pivoted thereto, a cam pivoted at one end to said arm, and a link pivoted to the other end of said cam and to the block, whereby when said arm is swung inward, the cam will clamp the rope between itself and the arm, substantially as herein described.

2. The combination with the sheave carrying block having an outwardly projecting fixed arm, of a hollow arm pivoted thereto, a cam pivoted at one end in said hollow arm, and a link pivoted to the opposite end of said cam and to the block, substantially as herein described.

In testimony whereof I have hereunto set my hand this 2d day of December, A. D. 1893.

FRANK E. YOUNG.

Witnesses:
W. K. MILLER,
BURT A. MILLER.