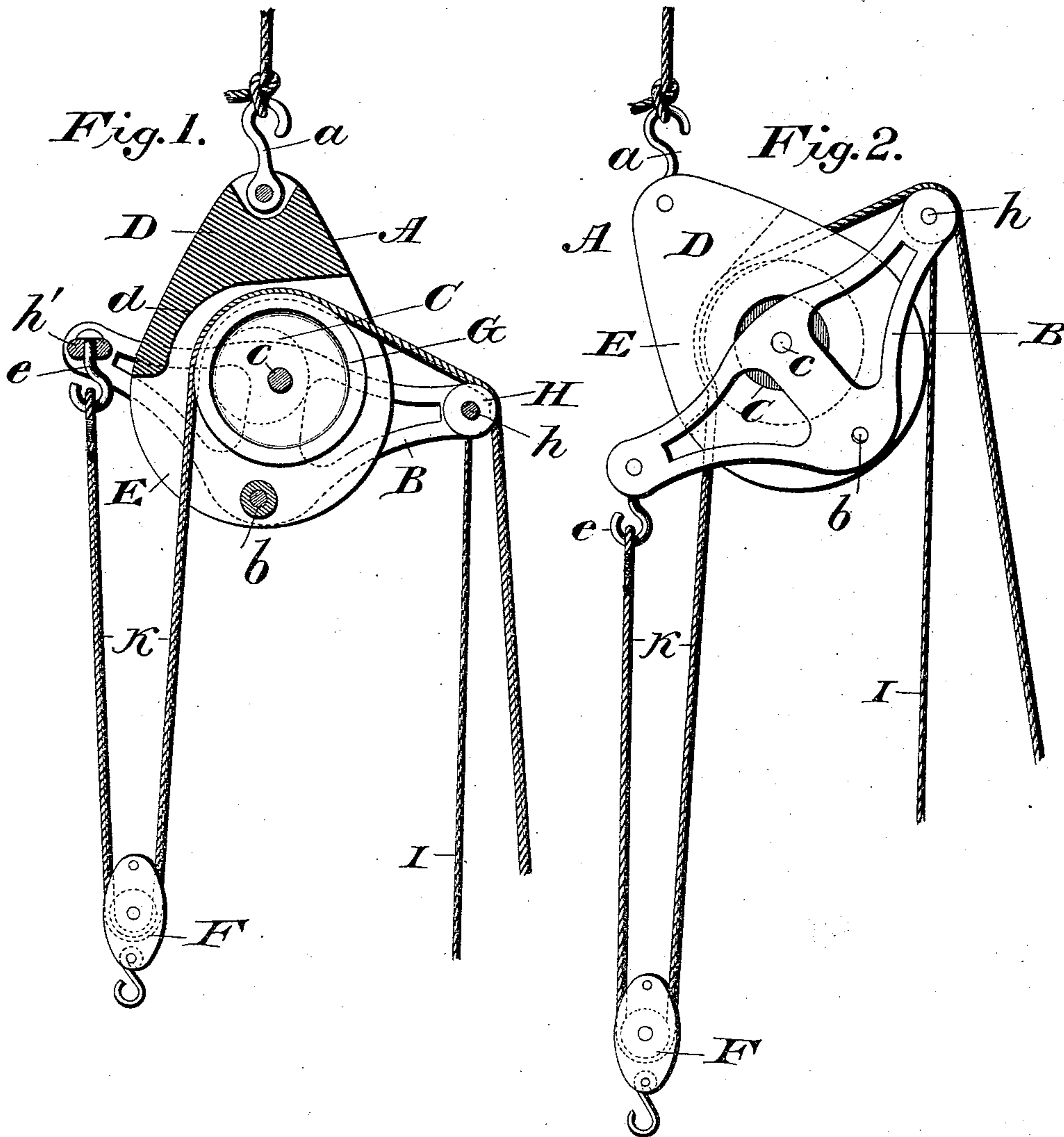


(No Model.)

J. T. BURR.
SELF LOCKING PULLEY.

No. 461,316.

Patented Oct. 13, 1891.



Witnesses
L. S. Elliott,
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UNITED STATES PATENT OFFICE.

JESSE T. BURR, OF MOUNT VERNON, OHIO.

SELF-LOCKING PULLEY.

SPECIFICATION forming part of Letters Patent No. 461,316, dated October 13, 1891.

Application filed June 6, 1891. Serial No. 395,293. (No model.)

To all whom it may concern:

Be it known that I, JESSE T. BURR, a citizen of the United States of America, residing at Mount Vernon, in the county of Knox and State of Ohio, have invented certain new and useful Improvements in Self-Locking Pulleys; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in self-locking pulleys.

The object of the invention is to provide a device which will automatically lock the hoisting-rope when the free end of the same is let loose; and my invention consists in the construction and combination of the parts, as will be hereinafter fully set forth, and particularly pointed out in the claims.

In the accompanying drawings, forming part of this specification, Figure 1 is a sectional view showing the parts of the block in a position for hoisting, and Fig. 2 is a side view showing the rope locked.

A refers to the pulley-block, at the upper end of which is located the usual hook *a*. To the lower end of the block is secured a pin *b*, to which are pivoted brackets B B, said brackets being located on each side of the block and braced to each other by transverse pins or pivots, the central pivot *c* passing through enlarged apertures in the sides of the block. The upper portion of the block is made solid, as at D, and depending therefrom are the side walls E E, between which and upon the pivot *c*, carried by the brackets, is positioned the sheave G, over which the hoisting-rope passes. The inner wall *d* of the solid portion of the block is preferably roughened, so that when the hoisting-rope comes in contact therewith it will be better gripped. One end of the hoisting-rope K is secured to a swivel *e*, located at one end of the rock-frame, and passes through a pulley F and then up over the sheave G and the roller H, located at the opposite end of the

rock-frame from the swivel *e*. A rope or cord I may be secured in any suitable manner to the end of the rock-frame, where the roller H is mounted, so that the rock-frame can be held in the position shown in Fig. 1 of the drawings in lowering the load, which is attached to the pulley F.

With a block and tackle thus constructed, it will be understood that when the free end of the hoisting-rope is drawn upon the rock-frame will be brought to the position shown in Fig. 1, so that the load may be elevated, and by simply releasing the free end of the rope the rock-frame will be swung upon its pivot *b* to clamp the rope between the sheave G and solid portion of the block, so as to sustain the load in any position.

I am aware that prior to my invention it has been proposed to provide a block and tackle with sheaves, which are mounted upon rock-bars, so that one of said sheaves can be brought in contact with arms or a solid portion attached to the frame; and I therefore do not claim such construction, broadly, as my invention.

What I claim as new, and desire to secure by Letters Patent, is—

1. In a self-locking pulley, the combination of a block A, having central apertures C C and a solid portion above said apertures, a rock-frame pivoted to the lower portion of the block, said frame carrying centrally a sheave, the pivot of which passes through the apertures C C, the ends thereof being attached to the rock-frame, a guide-roller for the hoisting-rope, carried by the rock-frame, and means for connecting said rope to the end of the frame opposite the guide-roller, substantially as set forth.

2. In combination with a block A, having a solid portion D, a rock-frame pivoted to the lower portion of the block and carrying centrally a sheave G, the pivot-pin of which passes through enlarged apertures in the block, and a swivel *e* and roller H, with which the hoisting-rope engages, substantially as set forth.

3. In combination with a block A, constructed substantially as shown, a rock-frame composed of brackets B B, pivoted to the

block and provided with a swivel e and roller
H at opposite ends thereof, and a sheave G,
 journaled centrally within the frame and posi-
 tioned between the depending walls of the
5 block A, said block having a solid portion,
 which is roughened adjacent to the sheave,
 substantially as set forth.

In testimony whereof I affix my signature in
presence of two witnesses:

JESSE T. BURR.

Witnesses:

FRED BEAVERSORN,
SOLON DAVIS.