

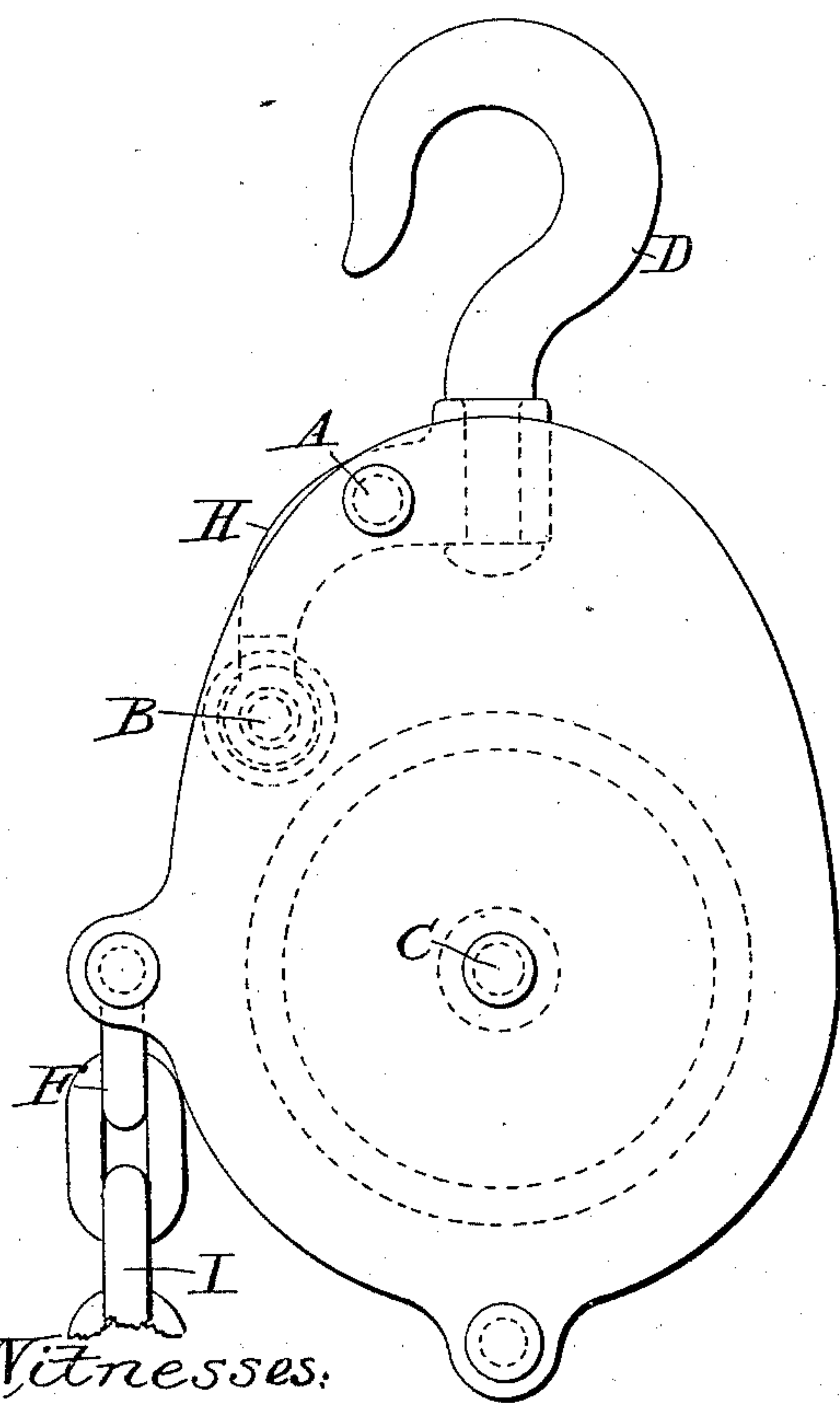
(No Model.)

F. H. ADDIS.
PULLEY BLOCK.

No. 468,499.

Patented Feb. 9, 1892.

Fig. 1.



Witnesses:

James F. Duhamel.
Horace A. Dodge

Fig. 2.

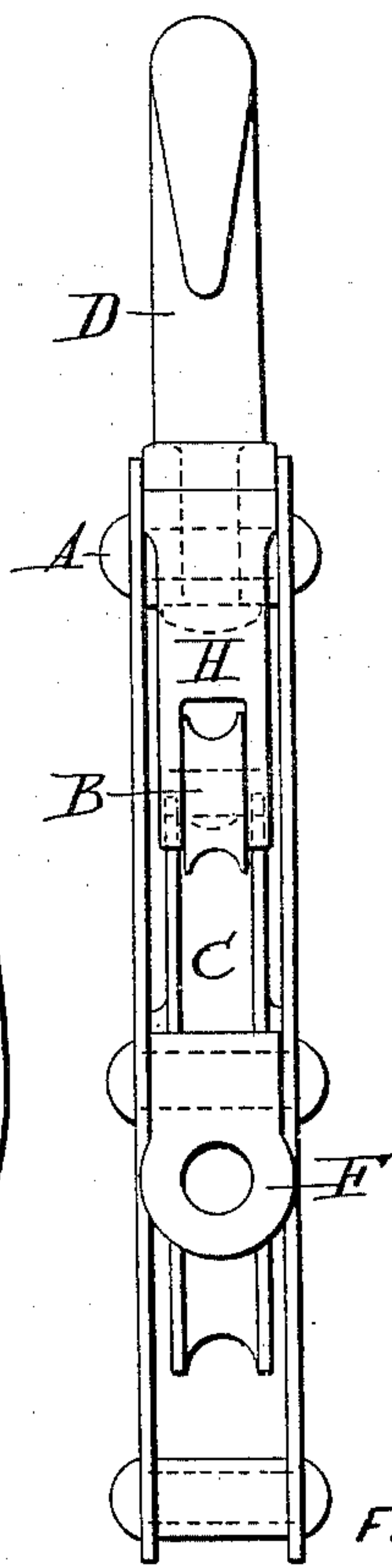
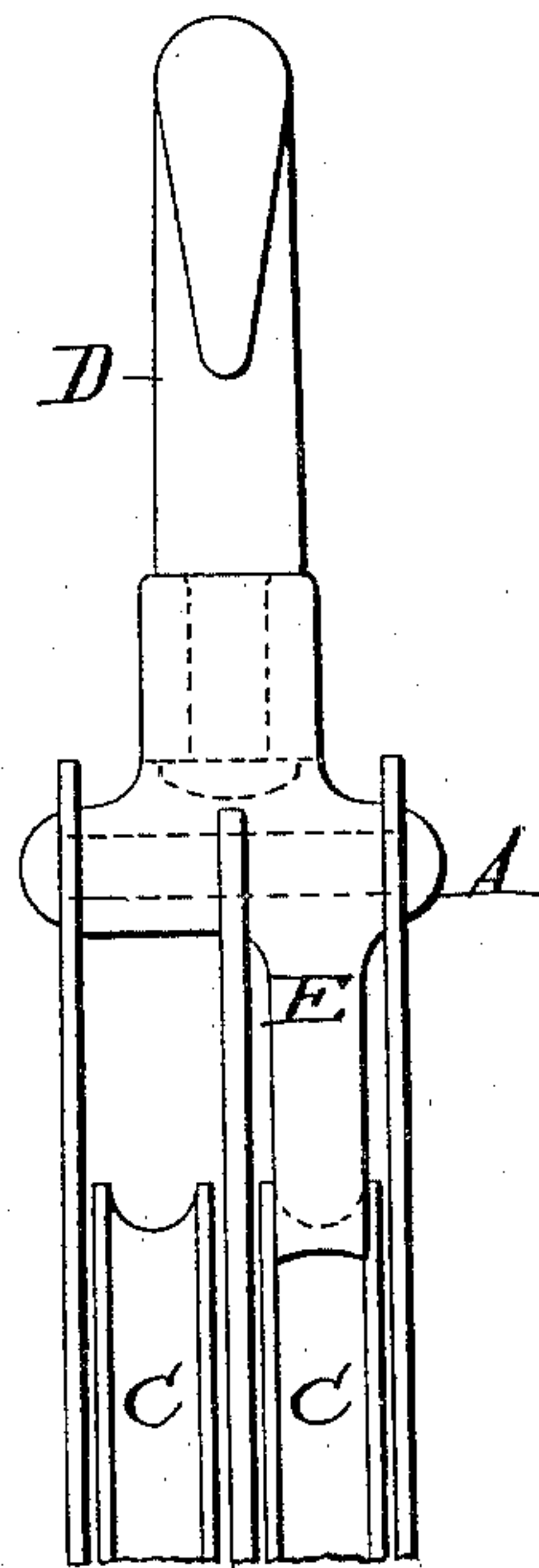


Fig. 3.



FREDERICK H. ADDIS,
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UNITED STATES PATENT OFFICE.

FREDERICK HENRY ADDIS, OF MHOW, CENTRAL INDIA.

PULLEY-BLOCK.

SPECIFICATION forming part of Letters Patent No. 468,499, dated February 9, 1892.

Application filed September 14, 1891. Serial No. 405,715. (No model.) Patented in England October 17, 1890, No. 16,540.

To all whom it may concern:

Be it known that I, FREDERICK HENRY ADDIS, a subject of the Queen of Great Britain, residing at Mhow, Central India, have invented
5 certain new and useful Improvements in a Gripping Device, (for which I have obtained British Patent No. 16,540, dated October 17, 1890,) of which the following is a specification.

My invention relates to pulley-blocks; and
10 it consists in a novel construction of the same, as hereinafter set forth and claimed.

In the drawings, Figure 1 is a side elevation of my improved pulley-block; Fig. 2, a front face view of the same, and Fig. 3 a view
15 showing a slight modification.

The object of my invention is to produce a pulley-block that will automatically clamp and hold the rope passing over the sheave and to provide means for releasing the same
20 when desired.

C represents an ordinary sheave or wheel mounted in the pulley-block and over which passes the rope that carries the load.

H indicates an arm, which is pivoted to one
25 side of the vertical axis of the pulley, as at A. The lower end of this arm H is provided with a roller B, while the upper end is provided with the usual hook D. Normally the roller B rests upon and binds the rope passing over
30 the sheave C and prevents it from moving.

On one side of the pulley-block is attached a shackle F, to which is fastened a rope or chain I. By pulling on this rope the pulley-block will swing on the fulcrum A away from
35 the roller B, and thus release the rope carrying the load. By releasing the pull on the rope the pulley-block will swing to its normal position and the roller B will again bind against the rope carrying the load and prevent its further movement. By varying the
40 pull or strain on rope I the movement of the load can be readily controlled.

The curve or arch H on the arm may be slightly flattened out so as to bring the wheel or roller B closer to the sheave C, and thereby
45 compensate for the wearing of the strap band or rope.

In Fig. 3 I have shown a double-pulley block,

one of the sheave-wheels only being provided with the gripping device. As will be seen
50 upon reference to the drawings, the arm H in this instance is not provided with a roller at its lower end, but simply curved to conform to the shape of the rope.

Having thus described my invention, what
55 I claim is—

1. In combination with the frame of a pulley-block and sheave mounted therein, the hook D, pivoted to the frame and provided with an arm to bear upon the rope passing
60 over the sheave, and means connected with the frame and independent of the hook and its arm for rocking or tipping the pulley-block frame and its sheave relatively to the suspending-hook, all substantially as shown and
65 described.

2. In combination with the frame of a pulley-block and its sheave, a suspending-hook provided with an arm to bear upon the rope passing over the sheave and pivoted to the
70 frame out of line with the axis of the sheave, and means for tipping the frame upon the axis or pivot of the suspending-hook, all substantially as shown and described.

3. In combination with the pulley-block
75 frame, sheave C, journaled therein, hook D, provided with arm H and pivoted to the frame at A out of line with the journal of the sheave, and a chain I, connected with the frame at that side of the journal of the sheave nearest the
80 pivot A.

4. In combination with a pulley-block frame and its sheave, a suspending device for the same, provided with a brake-arm to bear upon the hoisting-rope and pivoted to the frame
85 out of line with the axis of the sheave, and means for rocking the pulley-block frame and sheave upon the pivot of the suspending device, all substantially as shown and described.

In witness whereof I hereunto set my hand
90 in the presence of two witnesses.

FREDERICK HENRY ADDIS.

Witnesses:

JNO. LASHER,
ALEX. MCLEAN.