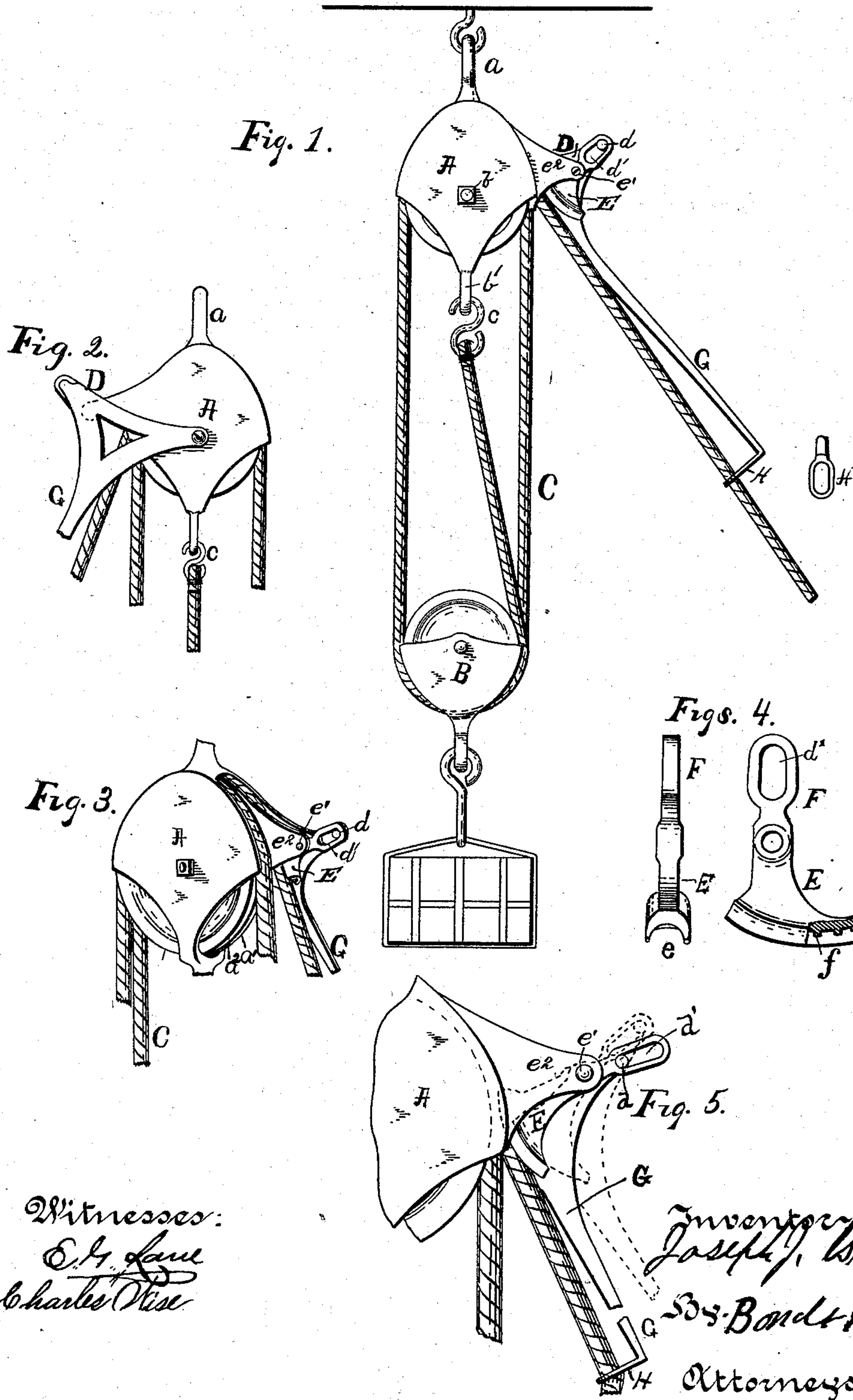


(No Model.)

J. J. GREEN.
HOIST.

No. 406,579.

Patented July 9, 1889.



UNITED STATES PATENT OFFICE.

JOSEPH J. GREEN, OF CANTON, OHIO.

HOIST.

SPECIFICATION forming part of Letters Patent No. 406,579, dated July 9, 1889.

Application filed August 31, 1888. Serial No. 284,260. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH J. GREEN, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, have invented certain new and useful Improvements in Hoists; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon, in which—

Figure 1 is a side elevation of the sheaves, showing the different parts properly attached. Fig. 2 is a side elevation of the top or upper sheave, showing the opposite side from that shown in Fig. 1. Fig. 3 is a perspective view of the top or upper sheave. Figs. 4 are detached views of the locking-segment. Fig. 5 is a view of a portion of the top or upper sheave, showing the locking devices in dotted lines in position for releasing.

The present invention has relation to hoists; and its nature consists in the different parts and combination of parts hereinafter described, and particularly pointed out in the claims.

Similar letters of reference indicate corresponding parts in all the figures of the drawings.

In the accompanying drawings, A represents the top or upper sheave-block, which is substantially of the form shown, and is provided with the hook *a*, which may be attached in the ordinary manner. Within the sheave-block A are located the grooved pulleys *a'* and *a''*, said pulleys rotating on the bolt *b*. The sheave-block B is substantially of the form shown, and is provided with two pulleys. The rope C is attached to the eye *b'* by means of the hook *c*, or its equivalent, and extends down under one of the pulleys in the sheave-block B, thence over one of the pulleys in the sheave-block A, thence under the second pulley in the sheave-block B, and finally over the second pulley in the sheave-block A, said rope being arranged substantially as illustrated in the drawings.

The lever D is pivotally attached to the

sheave-block A, and is substantially of the form shown. This lever D is provided with the pin *d*, which is for the purpose hereinafter described.

The segment E is pivotally attached to the sheave-block A by means of the bolt *e'*, connecting it with the projection *e''* on said sheave-block, and is provided with the extension or arm F, said extension or arm being provided with the elongated slot *d'*, which is for the purpose of receiving the pin *d*, located on the outer end of the lever D, as illustrated in the drawings.

For the purpose of operating the segment E, the pendent arm G is provided, running from and formed integral with the lower part of the lever D. The bottom or lower end of said arm is provided with the eye H, which is for the purpose of receiving the rope C. The segment E is provided with the groove *e*, said groove being provided with the teeth *f*, which are for the purpose of locking the rope C at any desired point. It will be seen that as the free end of the rope C is carried or drawn outward the pendent arm G will be moved outward, thereby releasing the segment E from the rope C by means of the pin *d* and the elongated slot *d'*, when the rope C is free to be moved in either direction. When it is desired to lock the rope C, the free end is drawn or permitted to go inward, when the segment E engages the rope C and securely locks the same, thereby holding the weight at any desired point.

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

1. The combination, with a sheave-block and its rope, of a lever and a segment pivoted at different points to the sheave-block, said lever having a pin engaging with a slot in the segment, whereby the movement of the lever controls the movements of the segment to hold or release the rope, substantially as described.

2. The combination of the sheave-blocks A and B, the rope C, the lever D, provided with the pin *d*, the pendent arm G, provided with the eye H, and the segment E, provided with

the extension or arm F, having the elongated slot d' , substantially as and for the purpose described.

3. The combination of the sheave-blocks A
5 and B, the rope C, the lever D, provided with the pendent arm G and eye H, the segment E, the groove e , and the teeth f , substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOSEPH J. GREEN.

Witnesses:

E. A. C. SMITH,

F. W. BOND.