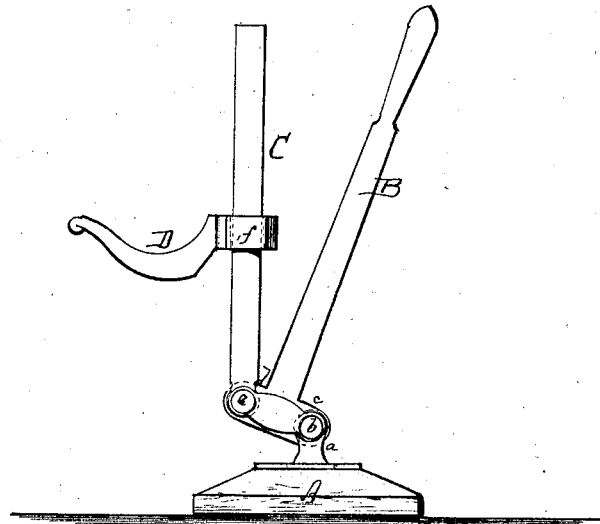


# *L. D. Warren, Lifting Jack.*

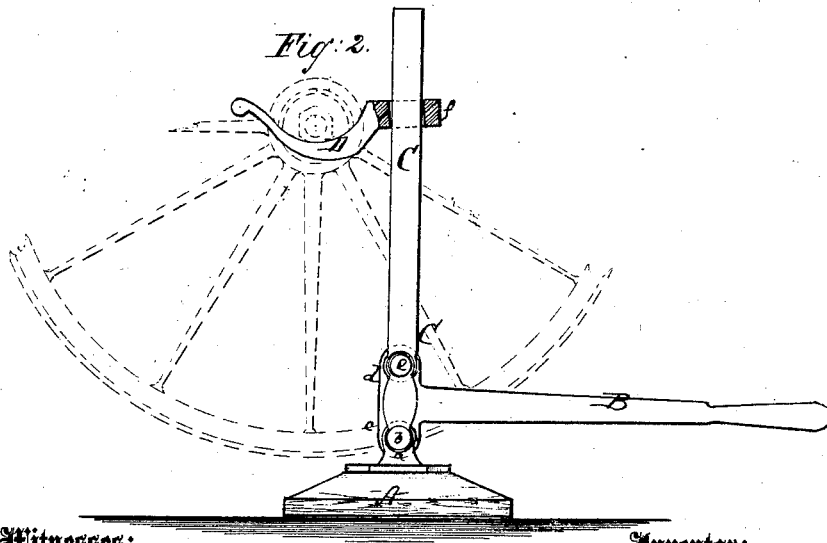
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PATENTED OCT 18 1870

*Fig. 1.*



*Fig. 2.*



Witnesses:

*S. S. Maber*  
*Alex. F. Roberts*

Inventor:

*L. D. Warren*

PER

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Attorneys.

# United States Patent Office.

LORENZO D. WARREN, OF HAVANA, ILLINOIS.

Letters Patent No. 108,414, dated October 18, 1870.

## IMPROVEMENT IN LIFTING-JACKS.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern.*

Be it known that I, LORENZO D. WARREN, of Havana, in the county of Mason and State of Illinois, have invented a new and improved Lifting-Jack; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

Figures 1 and 2 represent side views of my improved lifting-jack, showing it in different positions.

Similar letters of reference indicate corresponding parts.

This invention relates to a new lifting-jack, which is of extremely simple construction, and on which no pawls, clamps, or screws are required.

The invention consists in the combination of a lifting-lever with a pivoted post and sliding arm, all parts being so arranged that they will operate without additional apparatus. The simplest and most practical device of the kind is thereby produced.

A in the drawing represents the supporting-bed or platform of my improved lifting-jack.

From it projects an ear, *a*, to which, by means of a pin, *b*, one arm, *c*, of a T-shaped lever, B, is pivoted.

To the other arm, *d*, of the lever B is pivoted, by a pin, *e*, the lower end of a post, C.

D is the supporting or lifting arm of the jack.

It has at one end an eye, *f*, which embraces the post C.

By means of this eye the arm can be readily adjusted up or down on the post. When, however, a weight rests upon the arm D, the same will be so inclined as to bend with two diagonally-opposite corners against the edges of the post. Thereby the arm is locked to the post.

As long as the lever B is swung up so that its arms *c d* will be nearly in a horizontal position, as in fig. 1, the device will be in position to receive a weight. By then swinging the lever down, to bring the arms *c d* into a nearly vertical position, as in fig. 2, the weight on the arm D will be raised.

I am aware that a T-shaped lever and lifting-rod or bar have been combined before with lifting devices, but

What I claim as my invention, and desire to protect by Letters Patent, is—

The combination, with a T-shaped vibrating lever, B, and lifting-bar C, of a fixed fulcrum, resting on the bed A *a*, and the adjustable hook-arm D, all constructed and relatively arranged as and for the purpose specified.

LORENZO D. WARREN:

Witnesses:

JACOB WHEELER,  
W. J. ODLE.