

(No Model.)

J. P. HILYARD.
Lifting Jack.

No. 242,321.

Patented May 31, 1881.

Fig. 1.

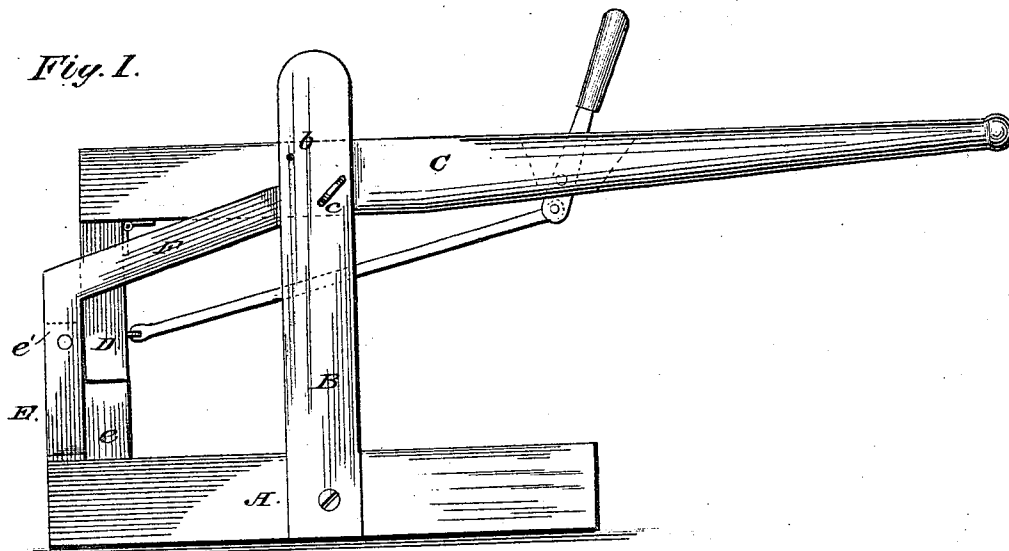
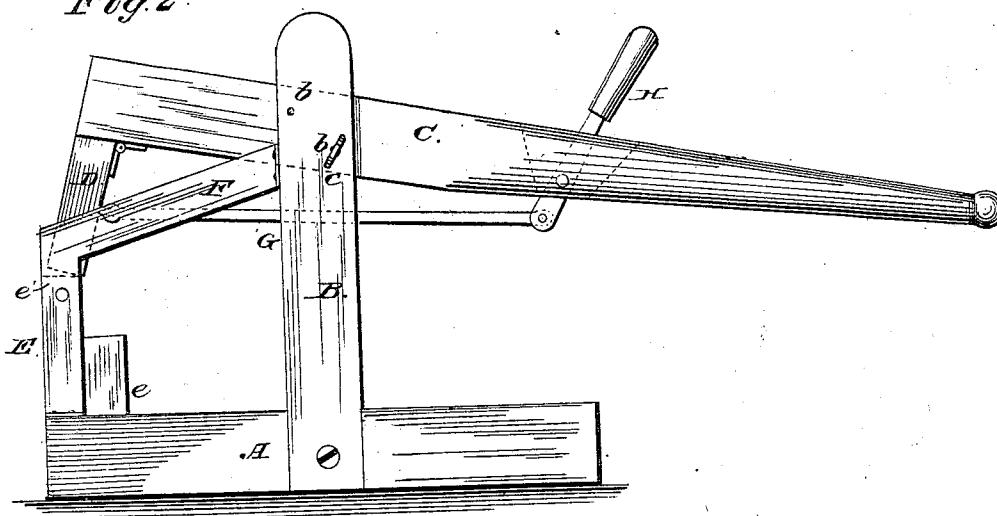


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

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LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 242,321, dated May 31, 1881.

Application filed January 27, 1881. (No model.)

To all whom it may concern:

Be it known that I, JAMES POWELL HILYARD, a citizen of the United States, residing in Twin Grove township, in the county of Greenwood and State of Kansas, have invented certain new and useful Improvements in Lifting-Jacks; 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 or figures of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a side elevation. Fig. 2 is a similar view, showing position as applied to raise wheel.

My invention relates to certain new and useful improvements in the class of wagon or lifting jacks.

In the class of lifting-jacks employing a single ratchet-bar connected to the standard upon which the lifting-lever is fulcrumed and to which a dog for engaging with said ratchet-bar is pivoted, it has been found that they are not adapted to the raising of heavy weights, for the reason that the teeth of the ratchet-bar would become stripped, or if they were very heavy and strong the dog was liable to break.

The object of my invention is to obviate these defects and produce a lifting-jack which, while combining simplicity in its construction and operation, is durable and capable of lifting heavy weights; and to this end the invention consists in novel features of construction, all as will be hereinafter fully described, and specifically pointed out in the claims.

In the drawings, A represents the base or support of my improved lifting-jack, and B B two vertical uprights having their lower ends secured in mortises formed in the sides of the base or support and near the center thereof. These uprights are provided with two holes, *b b*, arranged on different planes and diagonal from each other, for the reception of a pin, *c*, upon which is journaled the lifting-lever C, said lifting-lever being journaled on said pin when arranged in the lower hole for raising the fore wheels of a wagon, and on said pin when arranged in the upper hole for raising the rear

wheels of a wagon. This lever C projects a short distance in front of the uprights B B, and has hinged or pivoted to the front and under side thereof a brace or supporting block, D, which is adapted to engage with either of the steps *e e'* on the vertical upright E, centrally secured on the top and front end of the base or support, and braced or secured in position by the angular plates F F, connecting it to the base and to the uprights B B.

G represents a rod connecting the hinged block D to the lower end of a small lever, H, projecting up through a vertical slot in the lifting-lever in rear of the uprights B B.

In using the jack the parts thereof occupy the position shown in Fig. 1. The jack is then placed under the axle of the wheels, so that the front portion of the lifting-lever will engage with the under side of the axle, and on pressing down on the rear portion of said lever the wheels will be raised off from the ground, when, the operator drawing the lever H backward, the block D will be forced forward so as to engage with the top or upper step, *e'*, in which position the wheels will be sustained until the axle is properly greased, as shown in Fig. 2.

A reverse movement of said parts will lower the wheels and axle so that the parts will be made to resume their original position.

The above-described construction of parts forms a simple and durable lifting-jack, which can be easily and readily operated by a single person.

I am aware that a lifting-jack composed of a standard having vertical ratchet-plates connected to the front and rear sides thereof, and a lifting-lever provided with two pivoted pawls connected together and adapted to engage with said racks and operated through the medium of a hand-lever connected to said lifting-lever, is old, and such I do not wish to be understood as claiming, broadly, as of my invention.

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

1. In a wagon or lifting jack, the combination, with the base A and uprights B B, of an upright, E, having steps *e e'*, secured to said base in advance of the standards, and a lifting-lever pivoted to said standards and pro-

vided with a pivoted block, D, at or near the front end thereof, and means, substantially as described, whereby said block D is adapted to be thrown forward and engage with the step 5 *e'* of the upright E and hold the weight in a raised position, substantially as specified.

2. The herein-described wagon or lifting jack, composed of the base or support A, uprights B B, having the adjusting-holes *b*, pin *c*, and 10 lifting-lever C, fulcrumed thereon and provided at its front end with hinged or pivoted block

D, and a hand-lever, H, connected to said block D by rod G, the upright E, having the steps *e e'*, and the angular plates F F, connecting said upright E to the base or support A and 15 uprights B B, substantially as specified.

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

JAMES POWELL HILYARD.

Witnesses:

M. F. GIBSON,
JAMES SHULTZ.