S. LESHER.

Lifting-Jack.

No. 202,354. Patented April 16, 1878.

Fig. 1.

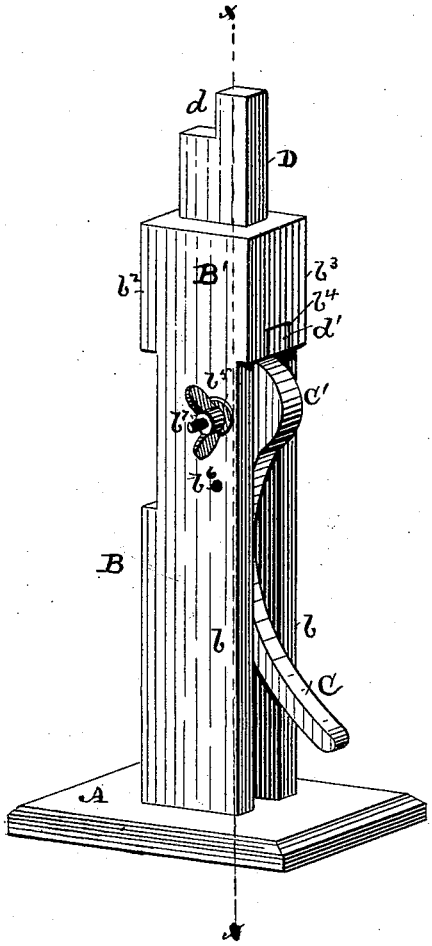
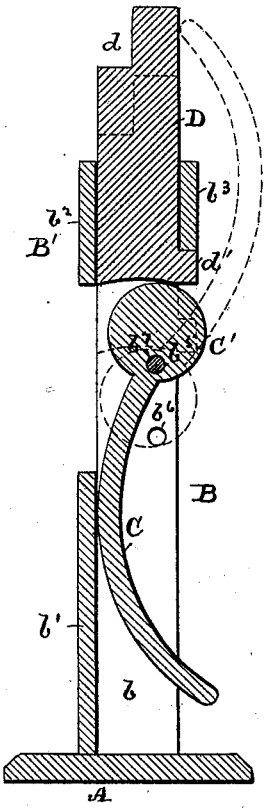


Fig. 2.



Attest:

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UNITED STATES PATENT OFFICE.

SAMUEL LESHER, OF SHARON, PENNSYLVANIA, ASSIGNOR OF ONE-HALF HIS RIGHT TO J. M. WILLSON, OF SAME PLACE.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **202,354**, dated April 16, 1878; application filed August 30, 1877.

To all whom it may concern:

Be it known that I, SAMUEL LESHER, of Sharon, in the county of Mercer and State of Pennsylvania, have invented certain new and useful Improvements in Wagon and Carriage Lifting-Jacks; 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 which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to that class of lifting-jacks which are operated by a lever and eccentric; and it consists in the construction, combination, and arrangement of the devices hereinafter set forth and claimed.

Figure 1 represents a side elevation of my improved lifting-jack. Fig. 2 represents a vertical section of the same through lines x x of Fig. 1.

In the accompanying drawings, A designates the bed-piece of my lifting-jack, which supports a vertical frame, B, consisting of side pieces b b and closing-strips b^1 b^2 b^3, which partly inclose the space within said frame. The two upper strips b^2 b^3 form, with side pieces b b, a complete box or casing, B′, at the upper end of said frame. The other strip, b^1, extends upward from bed-piece A on the same side of said frame with strip b^2. Said frame B is left sufficiently open to allow of the play of an operating-lever and eccentric, hereinafter described. C designates said lever, which is upwardly curved, as shown, and pivoted in frame B between side pieces b b, close to the edge of said frame. The end of said lever within said frame is expanded, so as to form an eccentric, C′, which operates against a slide or lifting bar, D, that works up and down in casing B′. This lifting-bar is provided at one of its upper corners with the usual notch or right-angled recess d, and at one of the bottom corners with a lug, d', which extends horizontally outward above lever C. This lug constitutes an extension of the bottom of said lifting-bar D, so that the latter may receive the full force of eccentric C′, which would otherwise wear against the corner of said lifting-bar, and transmit a diagonal strain thereto during the latter part of its rotation. Closing-strip b^3 is rectangularly recessed at the bottom, at b^4, to receive said lug d' when the slide or lifting bar is in its highest position. This recess allows the said lifting-bar to have sufficient upward motion; but strip b^3 prevents said lug d' from passing upward beyond said recess, and thus obviates all possibility of said lifting-bar accidentally separating from frame B. Said frame is provided with two or more perforations, b^5 b^6, for the pivot-bolt b^7 of lever C, so that said lever may be pivoted at a higher or lower point, for the purpose of regulating the action of eccentric C′ on lifting-bar D.

The curved shape of said lever C allows a firmer grasp to be maintained upon it as it descends in an arc, and also enables pressure to be applied to greater advantage when it is near its lowest position.

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

The combination of curved lever C, eccentric C′, frame B, having strip b^3 and rectangular recess b^4 in its under side, and lifting-bar D, provided with lug d', substantially as and for the purpose set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

SAMUEL LESHER.

Witnesses:

FRANK DAVIS,

HENRY PUTT.