

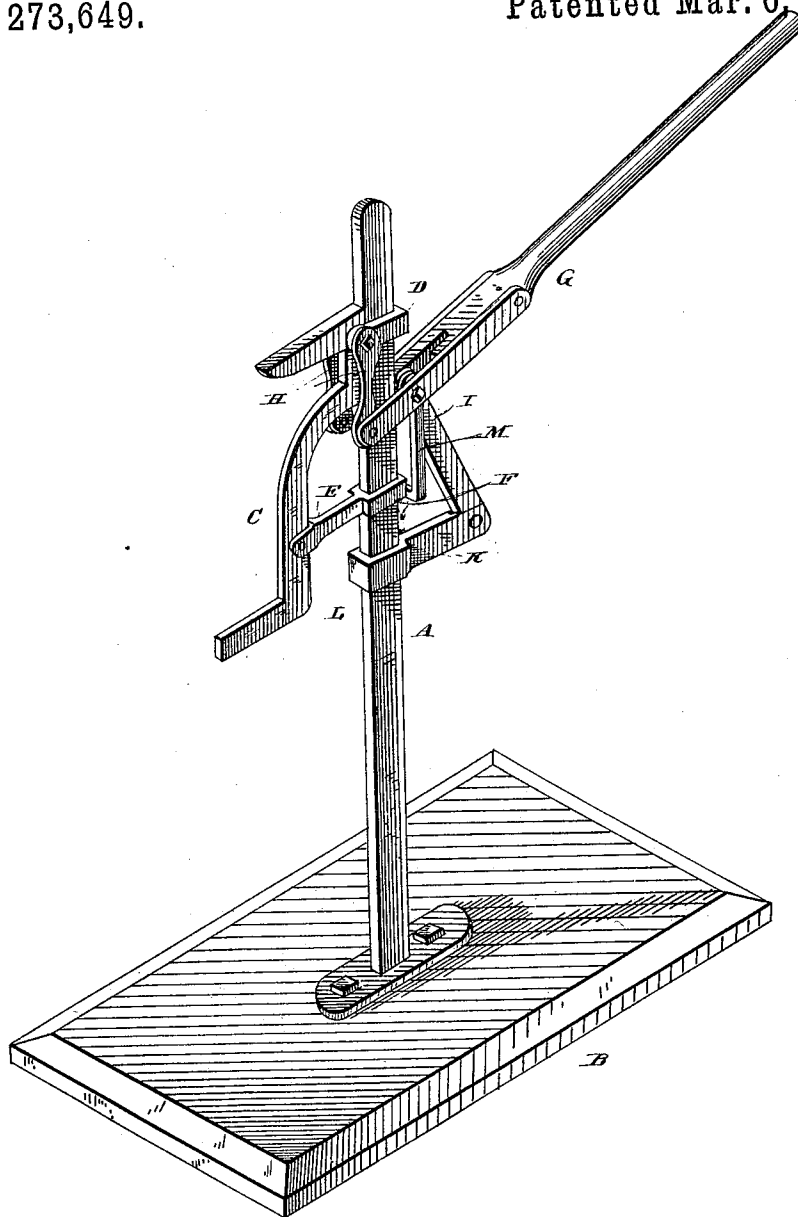
(Model.)

J. WEATHERS.

LIFTING JACK.

No. 273,649.

Patented Mar. 6, 1883.



Witnesses.

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UNITED STATES PATENT OFFICE.

JAMES WEATHERS, OF INDIANAPOLIS, ASSIGNOR OF ONE-HALF TO JOHN A. ROBBINS, OF COLUMBUS, INDIANA.

LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 273,649, dated March 6, 1883.

Application filed January 15, 1883. (Model.)

To all whom it may concern:

Be it known that I, JAMES WEATHERS, of Indianapolis, in the county of Marion, and in the State of Indiana, have invented certain new and useful Improvements in Lifting-Jacks; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

This invention has for its objects to provide a lifting-jack which will work efficiently and will be devoid of the usual rack-bar and pawl; and it is specially designed as an improvement upon the invention for which Letters Patent were granted to me the 21st day of February, 1882, No. 254,076. These objects I attain by the means illustrated in the accompanying drawing, in which is represented a perspective view of my improved lifting-jack.

In the drawing, the letter A indicates a flat vertical bar of metal mounted upon a suitable base, B.

The letter C indicates the lifting-bracket, which is provided with lateral horizontal projections, which are adapted to set under the article to be lifted. The upper end of the bracket is secured to the vertical standard or bar by means of a metallic strap, D, loosely pivoted to said strap and setting loosely over the standard. Near the lower end the bracket has pivoted to it a link, E, having a strap, F, at one end, which slides loosely on the vertical bar or standard.

The letter G indicates a bifurcated lever, which straddles the vertical bar or standard, and which is pivoted to links H, loosely connected to the upper part of the lifting-bracket, and to the metallic strap connected to the upper part thereof. Between the arms of the bifurcated lever is pivoted the upper end of an arm, I, the lower end of which is pivoted to the end of an arm, K, the other end of which has a metallic strap, L, loosely setting over the vertical bar or standard. Between one of the arms of the bifurcated lever and the bolt to which is pivoted the upper end of the arm

I is pivoted a loose arm, M, which extends downward and is bent at right angles, as indicated.

The operation of my invention is as follows: When either of the lateral projections is placed under the object to be lifted, the lever being previously elevated, if the lever is brought down the arm I causes the strap on the arm to bind on the vertical bar or standard and form a fulcrum for the lever, permitting it to elevate the lifting-bracket. When the lever has been given a full stroke it is again fully elevated, the arm K being so elevated at one end as to permit the strap to slide upward upon the vertical bar. The lever is again depressed if desired to further elevate the lifting-bracket. To drop the bracket, the lever is fully elevated and the arm M has its lower bent end set over the strap L, so as to hold the three straps truly in line, and permitting the lifting-bracket, lever, and other parts to be moved freely upon the vertical bar or standard.

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

The combination, in a lifting jack, of a vertical standard, A, a lifting-bracket, C, provided with lateral projections to set under the object to be lifted, and with a strap, D, at its upper end, setting loosely over the standard A, and a link, E, at its lower end, provided with a similar strap, F, setting over the standard, the bifurcated lever G, secured to the bracket C by means of suitable links, H, the arm I, to which said lever is fulcrumed, the arm K, to which said fulcrum-arm is connected, the said arm having a strap L, setting loosely over the vertical standard, the whole arranged to operate substantially as specified.

In testimony whereof I affix my signature, in presence of two witnesses, this 23d day of December, 1882.

JAMES WEATHERS.

Witnesses:

R. E. MOORE,
J. McCLELLAN.