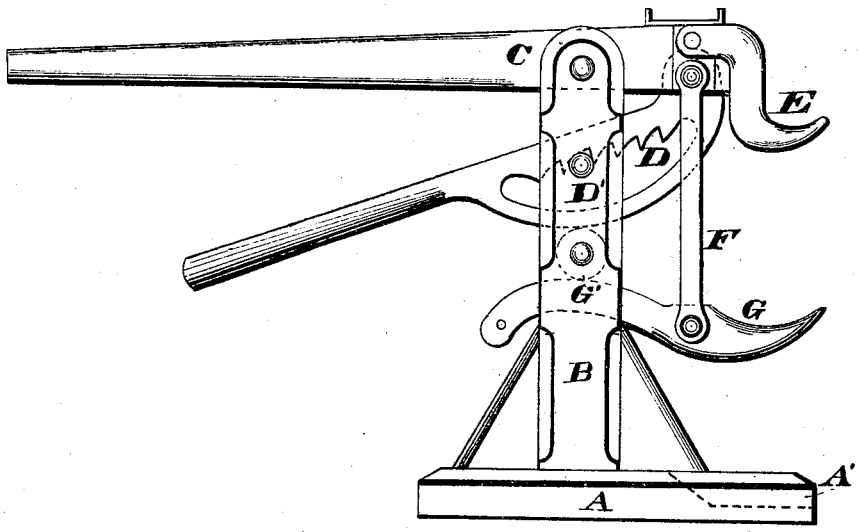
T. J. & C. C. CASE.

LIFTING-JACK.

No. 191,110. Patented May 22, 1877.



WITNESSES

Ed. L. Wittingham

A. Bright.

INVENTORS

Thomas J. Case

Charles C. 2d Case.

By Leggett & Leggett. ATTORNEYS

UNITED STATES PATENT OFFICE.

THOMAS J. CASE, OF GRANGER, AND CHARLES C. CASE, OF CLEVELAND, OHIO.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **191,110**, dated May 22, 1877; application filed April 9, 1877.

To all whom it may concern:

Be it known that we, THOMAS J. CASE and CHARLES C. CASE, residing at Granger, Medina county, Ohio, and Cleveland, Cuyahoga county, Ohio, respectively, have invented certain new and useful Improvements in Lifting-Jacks; and we 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 pertains to make and use it, reference being had to the accompanying drawing, which forms part of this specification.

Our invention relates to lifting-jacks.

In the drawing is represented a view in side elevation of our invention with all its attachments complete.

Our invention consists in the following parts and combinations, as hereinafter set forth and claimed, wherein—

A is a platform, of any suitable construction, into whose forward portion is made the slot or notch A′. B is a post or standard supporting the operating parts of my device. At or near the top of the standard B is pivoted the lifting-lever C. At or near the extremity of the short end of the lever is pivoted the ratchet brace and lever D, the ratchets of which engage with a pin or stop, D′, placed in the standard B. The ratchet brace or lever D has a handle projecting in the rear in the same direction as the long arm of the lever C. E is a detachable hook, by which a lower bearing-surface is given to the short arm of the lever C. F is a swing, pivoted at or near the free end of the short arm of the lever C, to the lower extremity of which is pivoted the lifting-hook G, by which a still lower bearing-surface is given to the short arm of the lever C, so that objects may be lifted from the ground. When this hook is at its lower portion it rests in the slot or notch A′.

The hook G is made, preferably, as shown in the drawing, of two transverse curves. The portion opposite to lifting end enters a longitudinal slot made in the standard B, which slot serves as a guide to keep the hook G in proper position laterally.

An anti-friction roller, G′, may be provided, against which the hook G impinges.

Operation: The hand of the operator grasps both levers C and D, whereby the ratchet portion is lifted free from the pin or stop D′. Thus the lifting portion of the short arm of the lever C may be depressed sufficiently to be placed under the object to be lifted. Then the lever D is dropped, and the lever C depressed.

By this operation the weight is lifted, while at the same time the ratchet-bar D so engages with its pin or stop that the weight may be automatically held at any proper height.

Should the lifting-surface of the lever C of itself not be low enough to be placed under the weight to be lifted, then the detachable hook E may be called into action; and if the hook E does not present a bearing-surface low enough—such as, for instance, a fence, or the like—to be lifted from its lower rail, then the detachable hook G may be called into requisition.

The hooks E and G are made detachable, so that they may be used or not, as may be desired.

It will be observed that the ratchet-bar D performs the double office of a stop and of a brace, whereby much of the strain is relieved from the pivot of the lifting-lever C.

When it is desired to release the weight the lever C is depressed sufficiently to free the ratchet-bar D, when its handle is lifted, and the long arm of the lever C thus is left free to move upward, and the weight is thereby dropped.

What we claim is—

In combination with the lifting-lever C, the swing F, hook G, and slotted standard B, substantially as and for the purposes described.

In testimony whereof we have signed our names to this specification in the presence of two subscribing witnesses.

THOMAS J. CASE.
CHARLES C. CASE.

Witnesses:
FRANCIS TOUMEY,
L. L. LEGGETT.