

(No Model.)

W. L. PORTER.

LIFTING JACK.

No. 284,482.

Patented Sept. 4, 1883.

Fig. 1.

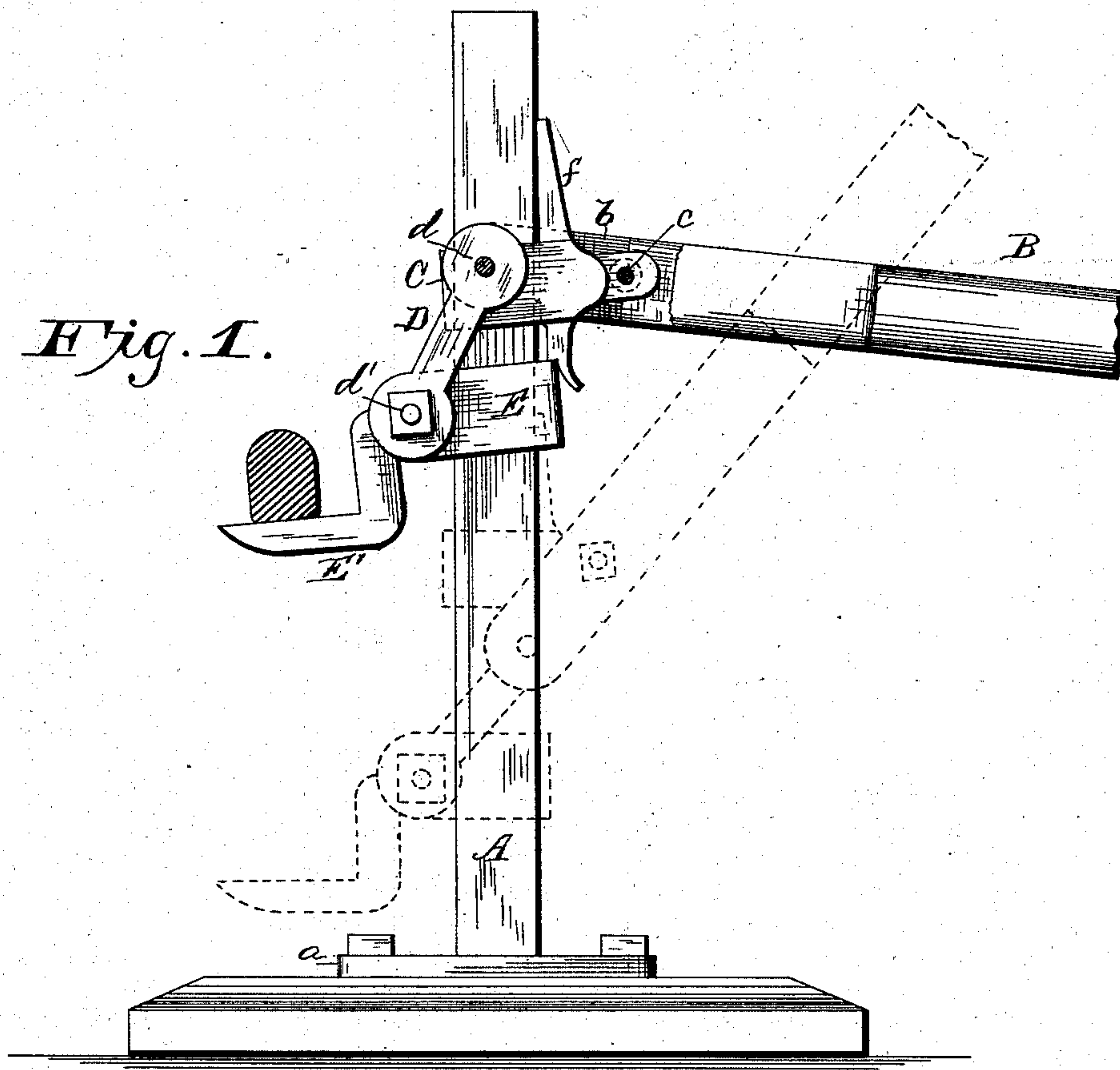
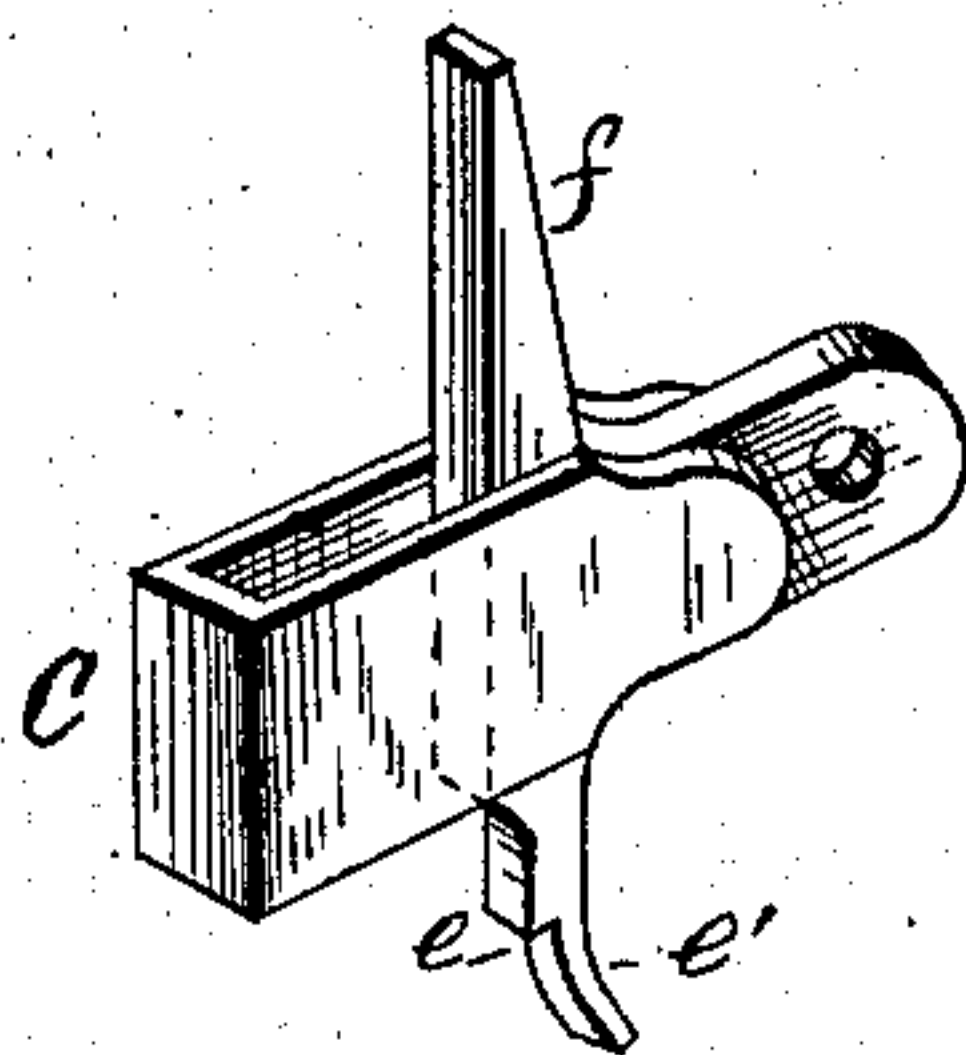


Fig. 2.



Witnesses:
J. M. Burnham
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[Signature]
his Atty.

UNITED STATES PATENT OFFICE.

WALTER L. PORTER, OF EMLENTON, PENNSYLVANIA.

LIFTING-JACK.

SPECIFICATION forming part of Letters Patent No. 284,482, dated September 4, 1883.

Application filed May 10, 1883. (No model.)

To all whom it may concern:

Be it known that I, WALTER L. PORTER, a citizen of the United States of America, residing at Emlenton, in the county of Venango and State of Pennsylvania, 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.

This invention relates to certain new and useful improvements in lifting-jacks; and it consists in providing a standard with clamps, whereby a continuous upward movement may be given to the same by reciprocating the handle attached thereto, whereby a weight may be raised, as will be hereinafter more fully set forth, and pointed out in the claims.

In the annexed drawings, which illustrate my invention, Figure 1 is a side view, and Fig. 2 is a detail perspective view.

A represents a rectangular standard, which is attached to the base by means of a cross-bar, *a*, which is bolted thereto. This standard A, as heretofore stated, is rectangular in cross-section, and may be of any length desired, and is of greater width than thickness.

B represents the operating-handle, which is cut away or bifurcated at its end next to the standard A. To the ends of the projecting portions *b* are pivoted links D D, as will be hereinafter set forth.

Secured by means of a pivot, *c*, which is located on the outer end of the bifurcated portion of the handle B, is a bail, C, which embraces the standard A, and is provided on its inner portion with a wedge, *f*, the inner face of which is parallel with the front inner face of the bail C. The lower end of this wedge is provided with a recess, *e*, and an outwardly-bent portion, *e'*. These parts are rigidly secured to each other, or may be made, if desirable, out of a single piece of metal.

E represents another bail or clamp, which encircles the standard A under the bail C, and it is provided with an outwardly-projecting

foot, E', upon which the article to be raised is placed. The forward end of this bail E is provided with a perforation, through which passes a bolt, *d'*, for the purpose of connecting the links D D thereto, the opposite ends of these links being secured to the end of the handle by means of the pivot *d*. It is evident that these bails C and E may be formed either of single pieces of metal, and have their attachments secured thereto, or they may be formed of separate pieces of metal, the attachments being of the same thickness as the standard A. Thus when the parts are united a rectangular opening will be formed in the same of or about the same size as the standard A.

The operation of my invention is as follows: When no weight is placed upon the projecting foot E', the handle may be raised, and will carry with it the bails C and E; but as soon as pressure is brought to bear against the foot E' the lower bail, E, will be thrown off a horizontal line and will bite the standard. The inner lower and the inner upper portions of the bail clamp upon the same, and when the weight is desired to be raised it is accomplished by raising the outer end of the handle, which raises the bail C upon the standard, and when the same is depressed it will bite upon the standard, in a manner similar to the lower bail, and the said bail will be raised and carry the weight with it.

In order to keep the parts located upon the standard, the notch *e* rests upon the upper part of the lower bail. Thus when the weight has been raised to a sufficient height, both clamps will serve to hold the weight in a raised position. By pressing the handle downward the notch *e* and pointed wedge *f* will throw both the bails in a horizontal position, thus releasing them from the standard and allowing the parts to slide downward.

It will be noticed that by my system of leverage I attain great power, and heavy weights may be raised with but little effort.

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

1. In a lifting-jack, the standard, substantially as described, provided with bails C and E, the upper bail being pivoted to the

handle at *c*, as shown, said handle being connected to the lower bail, at its outer portion, by the links D D, substantially as shown, and for the purpose set forth.

- 5 2. The bail or clamp C, provided with a wedge, *f*, having a notch, *e*, upon its lower portion, and pivoted within the bifurcations of the handle B, said handle being provided with links D D, pivoted thereto, and the lower

bail, E, provided with the foot E', substantially as shown, and for the purpose set forth. 10

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

WALTER L. PORTER.

Witnesses:

J. HARRY HEASLEY,
WILLIAM LEIPLE.