

H. W. CORNELL.

LIFTING-JACK.

No. 172,973.

Patented Feb. 1, 1876.

Fig. 1.

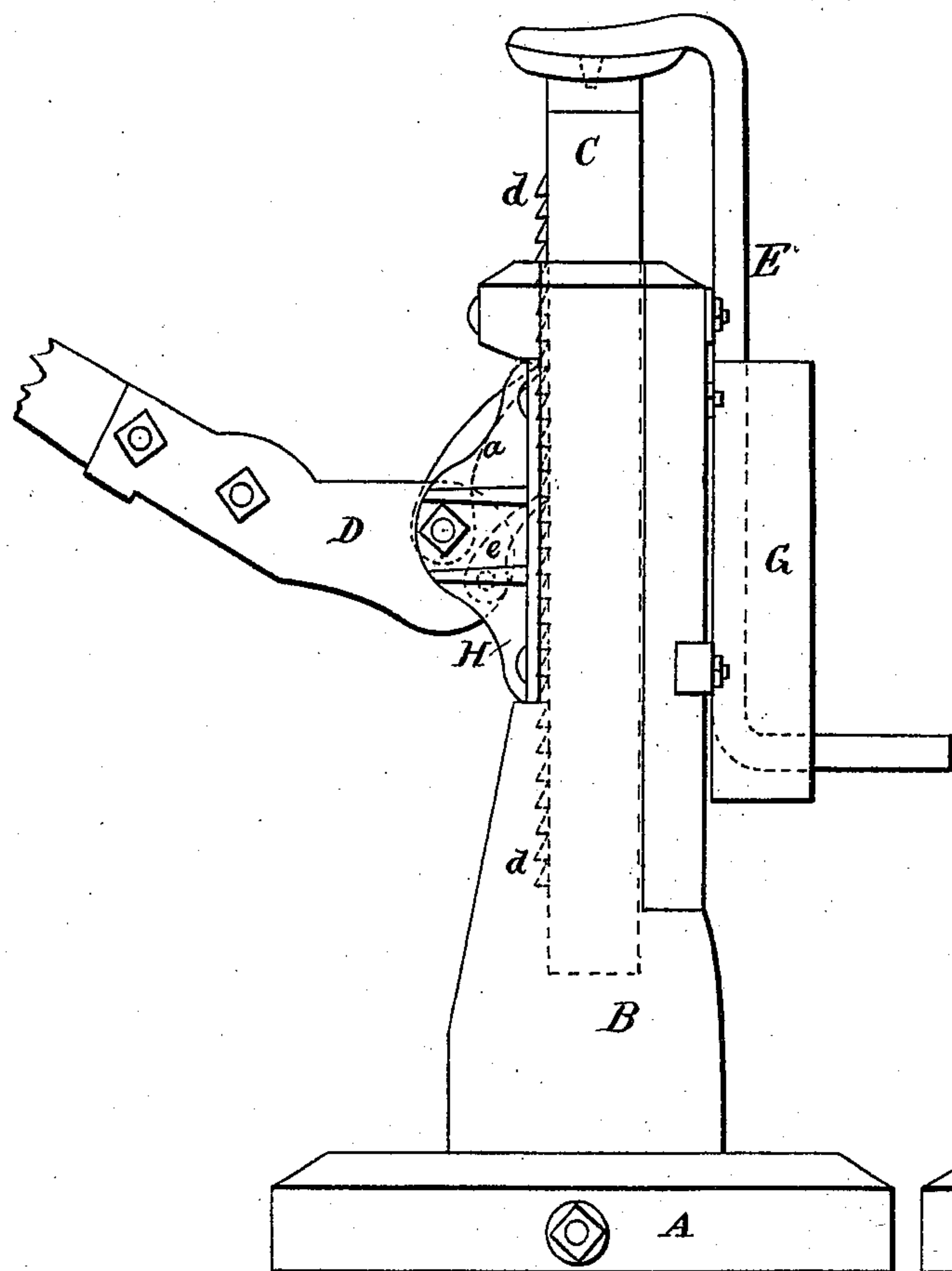
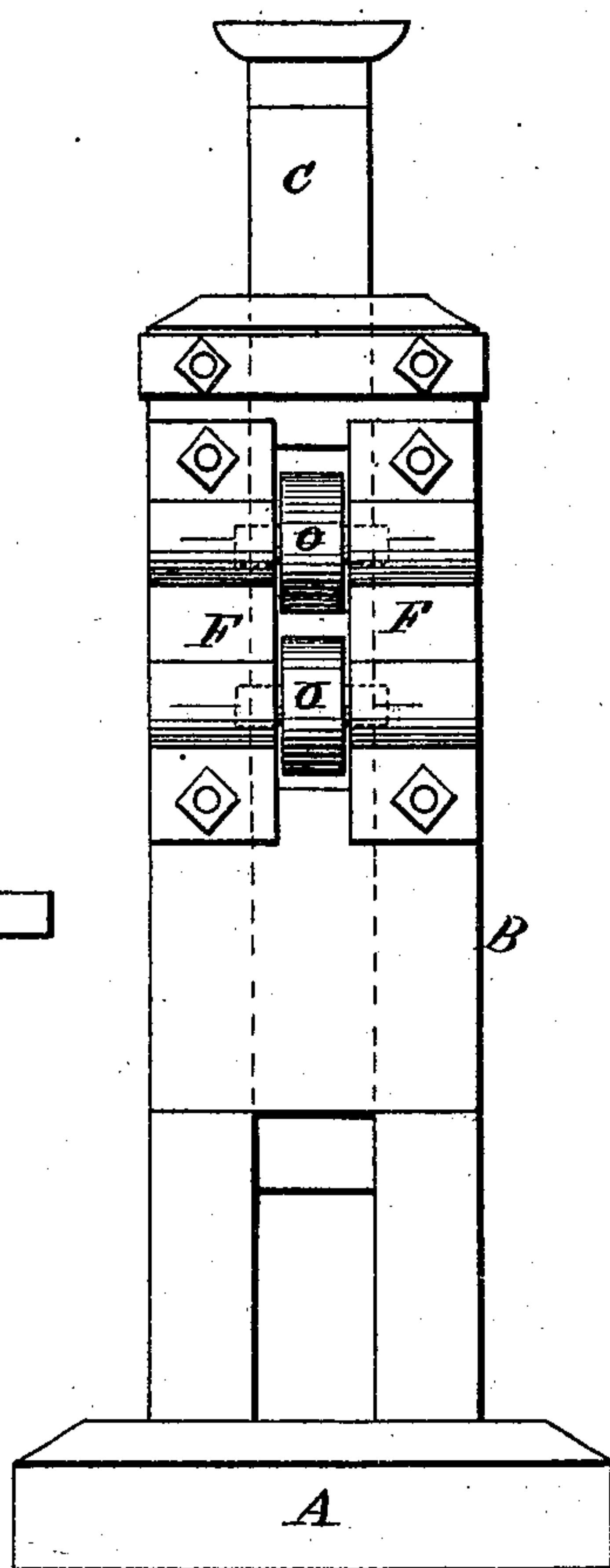


Fig. 2.



WITNESSES

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By

INVENTOR

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# UNITED STATES PATENT OFFICE

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## IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **172,973**, dated February 1, 1876; application filed January 6, 1876.

*To all whom it may concern:*

Be it known that I, HARMON W. CORNELL, of Owego, in the county of Tioga and in the State of New York, have invented certain new and useful Improvements in Lifting-Jacks; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention relates to an improvement upon the lifting-jack for which Letters Patent No. 152,608 were granted to me June 30, 1874; and the nature of my invention consists in the construction and arrangement of certain parts of a lifting-jack, the peculiarities of which will be hereinafter more fully set forth.

In the annexed drawings, making part of this specification, Figure 1 represents a side, and Fig. 2 a back, elevation of my jack.

In the figures, A represents a solid wooden base, upon which is erected a hollow wooden bottom. H H represent two metallic bars, which are firmly bolted to the body B, and which have flanges which project out from said body, and between which the operating lever D is hinged or pivoted. C represents a wooden standard, which plays vertically in the hollow of the body B. This standard is provided on the side toward lever D with a metallic rack-bar, *d*, said bar being firmly secured to the standard. The lever D is provided, near its inner end, with two pawls, which catch into and operate the rack-bar *d* and standard C upward. Both of these pawls are pivoted between the prongs of the lever, but one actually to it, and one upon the bolt which secures the lever between the flanges of bars H H. The pawl *a* is stationary, while the pawl *e* moves with the lever, the one acting as the lifter, and the other as a detent. O O represent two metallic rollers, which have their bearings in the metallic plates F F, which are bolted to the back side of the body B. These

rollers play through slots in the body B, and rest against the standard C, on the opposite side to the rack-bar *d*, so that, in lifting heavy weights, the lever and its pawl press upon one side of the said standard and the rollers relieve the friction upon the other, and thus make the operation easy. E represents a metallic bar, which has its ends bent at right angles to its length, but in opposite directions. The upper end of the bent portion of this bar is provided on its under side with a pin, which passes into a socket on the top of the standard C. The object of the pin is to keep the bar in place and secure upon the standard. The bar E will be made long enough so that its lower arm can catch under objects which are lower than the top of the jack. A wooden block, G, may be connected to this bar, and made of any desirable length, and objects to be raised may rest upon it, so that the jack can be accommodated to objects of any height. The bar E is of course detachable by simply lifting it from its resting-place.

This jack may be placed beneath the following block of a cotton or hay or other press, and used for operating the same with great advantage.

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

1. The rollers O O, in combination with the body B and the standard C of a lifting-jack, as and for the purpose set forth.

2. The bar E, as constructed, in combination with the standard C of a jack, as and for the purpose set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 4th day of January, 1876.

H. W. CORNELL.

Witnesses:

J. M. MASON,  
H. A. HALL.