

*Lifting Jack.*

No. 95,157.

*Patented Sept. 21. 1869.*



*Witnesses:*

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*Inventor:*

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# United States Patent Office.

LOUIS P. SMITH, OF MIDDLETOWN, PENNSYLVANIA.

*Letters Patent No. 95,157, dated September 21, 1869.*

## IMPROVED LIFTING-JACK.

The Schedule referred to in these Letters Patent and making part of the same.

### *To all whom it may concern:*

Be it known that I, LOUIS P. SMITH, of Middletown, in the county of Dauphin, and State of Pennsylvania, have invented an improved Lifting-Jack, for household use; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification—

Figure 1 being a central vertical section of the instrument;

Figure 2, a top view of the same.

Like letters designate corresponding parts in both figures.

This instrument (which I term "The Excelsior Jack") is intended for raising stoves, bureaus, and other heavy articles of household furniture, and it is so constructed that carpets may thereby be removed from or put down under the furniture with ease and celerity.

The standard A, which supports and encases the working-parts, has a broad, thin-edged base, *a*, extending under the centre of support, the construction being such in order that it may enter readily under the edge of a carpet, and support the instrument upon the bare floor.

Encased in the standard A, is a sliding lifting-bar, B, provided with projecting side-wings *f f*, which fit in corresponding grooves in the standard, and hold the bar strong and firm in position.

This lifting-bar has rack-teeth *b* on the back edge, into which mesh cogs *d*, on the circular edge of the inner end of an operating-lever, D, which is pivoted and partly encased in the standard.

This enlarged inner end of the lever D has also ratchet-teeth *e* beneath, into which catches a detent, E, also pivoted and partially encased in the standard A, beneath said lever, substantially as represented.

Upon the lifting-bar B slides a supporting-block, C, on which the article to be lifted rests. This block embraces the lifting-bar, and fits around projecting wings *g g* on the bar, to hold it firmly thereon.

It is sustained at any height desired by ratchet-teeth *h* on the front edge of the lifting-bar, into any one of which a claw, *c*, on the under side of the block, catches, the block being moved up or down on the bar, according to the height of the article to be lifted, where the instrument is applied.

When the instrument is run under the edge of the carpet into position, and the outer end of the lever D is raised by the foot, the block C is adjusted under the part to be lifted against, and the lever D is depressed, thereby sliding up the lifting-bar B, and raising the article from the floor. The detent E holds the lever down till it is required to release the jack, and lower the article, and then the detent is again set free.

I claim, as my invention—

The lever D, constructed with cogs *d* and ratchet-teeth *e*, in combination with the lifting-bar B, having rack-teeth *b*, and with the detent E, substantially as and for the purpose herein specified.

Also, the construction and arrangement of the standard A with the working-parts of the lever D, and detent E encased therein, and the lifting-bar B with its long side-wings sliding in grooves thereof, substantially as set forth.

This specification signed by me, this 2d day of June, 1869.

LOUIS P. SMITH.

Witnesses:

HENRY HINNY,  
C. A. WALBORN, Jr.