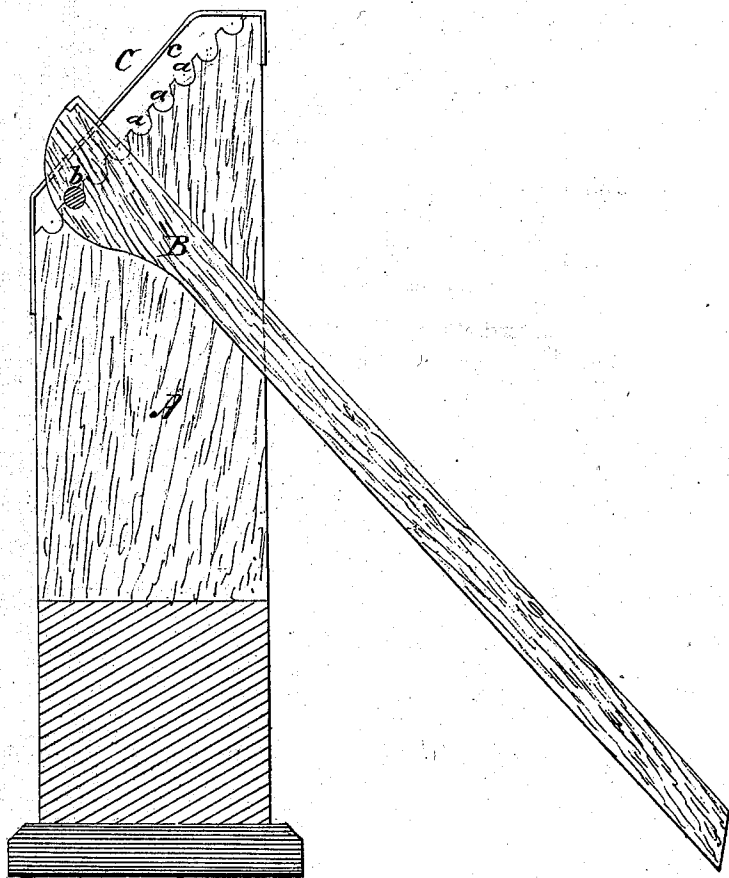


W. S. Douglass,

Lifting Jack.

No. 97,018.

Patented Dec. 7, 1869.



Witnesses:

Victor Hagmann  
Chas. A. Pettit

Inventor:

W. S. Douglass  
per Allen H. P.  
Attorneys

# United States Patent Office.

WILLIAM S. DOUGLASS, OF RICHMOND, VERMONT, ASSIGNOR TO W. O. DOUGLASS AND A. S. DOUGLASS, OF SAME PLACE.

Letters Patent No. 97,618, dated December 7, 1869.

## IMPROVED CARRIAGE-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, WILLIAM S. DOUGLASS, of Richmond, in the county of Chittenden, and State of Vermont, have invented a new and improved Lifting-Jack; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawing, making a part of this specification, which drawing is a longitudinal vertical section.

This invention consists of a forked vertical standard, having a series of notches in its inclined top, and bands placed over such notches in such manner as to form inclined guideways under the bands, of which guideways the notches form part, and in which guideways the pin that forms the lever-fulcrum slides, when the pin is not resting in a pair of the notches, such sliding being for the purpose of stationing the fulcrum at a higher or lower point, as may be desired, and the lever being so pivoted as to be self-locking.

In the drawing—

A is the forked standard, the two arms of which have each a series of notches, *a*, in their upper ends, said upper end and series of notches being inclined.

B is the lever, whose fulcrum is the pin *b*, placed near one end, such lever working in the recess between the two arms of the standard, and its fulcrum-

pin projecting to each side of it, so as to rest in two of the notches *a*, one in each arm, at the same time.

By locating the fulcrum in a lower or higher place in the inclined series of notches, it may be adapted to lift objects of varying altitudes.

Bands, C, of iron, or other metal, are bound over the inclined tops of the arms in such manner as to form inclined guideways *c*, which the fulcrum-pin may traverse, the bands C preventing its displacement.

It will be observed that the lever B has an eccentric head, in which the pin *b* is so placed that the point on which the load rests is in a vertical plane between the fulcrum and the body of the lever when the latter is pressed down. Hence the weight of the carriage upon the lever-head renders the latter self-locking, and obviates the necessity of bail-attachment.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The forked standard A, provided with the inclined series of notches *a*, in combination with the self-locking lever B and bands C, substantially as and for the purpose described.

WM. S. DOUGLASS.

Witnesses:

T. M. THOMPSON,  
SALMON GREEN