T. VAUGHAN.

Improvement in Lifting-Jacks.

No. 132,189. Patented Oct. 15, 1872.

Fig. 1.

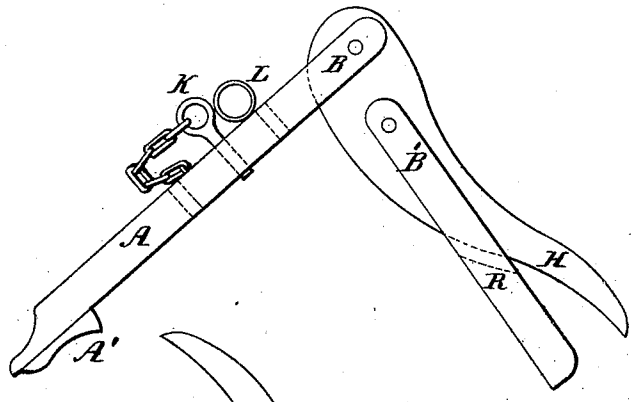


Fig. 2.

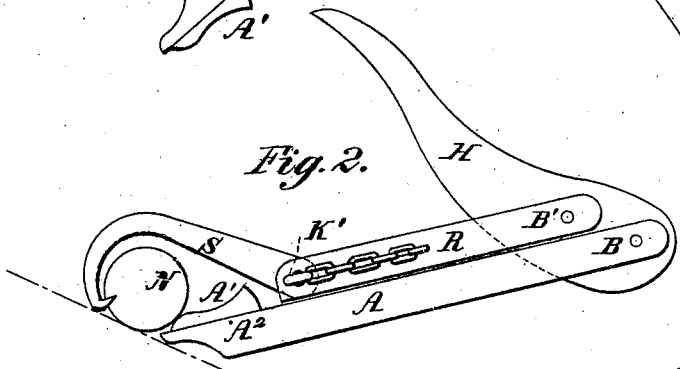
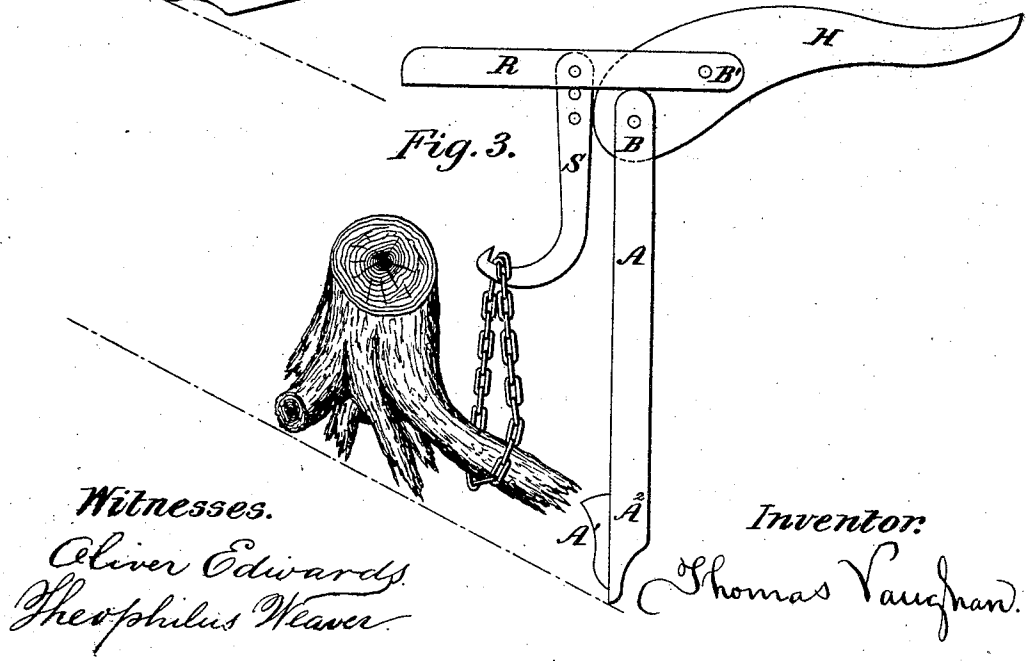


Fig. 3.



Witnesses.

Oliver Edwards

Theophilus Weaver

Inventor:

Thomas Vaughan.

UNITED STATES PATENT OFFICE.

THOMAS VAUGHAN, OF HARRISBURG, PENNSYLVANIA.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **132,189**, dated October 15, 1872.

To all whom it may concern:

Be it known that I, THOMAS VAUGHAN, of the city of Harrisburg, county of Dauphin and State of Pennsylvania, have invented an Improved Lifting-Jack and Cant-Hook combined, of which the following is a specification:

My invention consists in the combination and arrangement of two unequal limbs, hinged or pivoted at their rounded ends to a third piece or actuating-lever, in such manner that the long limb may have its pivot at the rounded or disk end of the lever, and that the shorter limb may have its pivot a proper distance in from the other pivot, and arranged eccentrically to it; and consists, further, in providing the long limb with a saddle or perch, and the shorter limb with a detachable cant-hook, whereby the device is adapted to act as a wagon-jack, a log-canting jack, or a stump-extracting and lifting jack at pleasure, these offices being shown, respectively, in the front-elevation views at Figures 1, 2, and 3 of the accompanying drawing.

A represents the long limb, and R the short limb, pivoted to the lever H, respectively, at B and B′. The pivots are arranged so that pivot B′ is on the lower side of the imaginary line passing through pivot B and the foot of limb R. A shoulder at the end of a slot in limb R stops the lever H at proper distance to maintain the full lift. An adjustable pin, K, holds the object hoisted suspended on limb A, the latter being thrown up by the act of depressing the lever H.

In Fig. 2 the end of a log, N, is represented as tackled by the cant-hook S to be passed onto the saddle A^1, made to lodge it on limb A when the lever H is drawn, thus moving limb B′, and thereby cant-hook S, which is joined to it detachably by pin K′, through its slotted end. The limb A is beveled at A^2 to grade the step of the log onto the saddle A^1. The object of raising the end of the log in the manner stated is to pass a chain around it readily to haul or draw it. The reverse action of the lever H and limb R can be employed to extricate the jack when the log is hitched for hauling.

In Fig. 3 the jack is shown with the long limb A erected as a standard, and the short limb R thrown back, and the cant-hook S attached to it near the fulcrum B, to enhance the strength of limb R, and to add power advantage on end of lever H, which, by this arrangement, is fully economized, as shown, when the device is hitched to a root, post, or other object.

I claim—

The detachable cant-hook S, in combination with limb R and saddle A^1, the limbs A R, and lever H, being arranged to operate in the manner as and for the purpose herein set forth.

THOMAS VAUGHAN.

Witnesses:

OLIVER EDWARDS,

THEOPHILUS WEAVER.