H. H. MARGESON
Wagon-Jack.

No. 210,948. Patented Dec. 17, 1878.

Fig. 1.

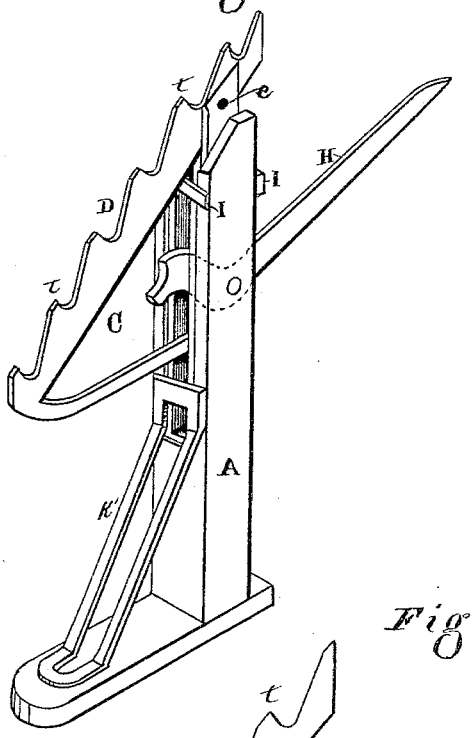
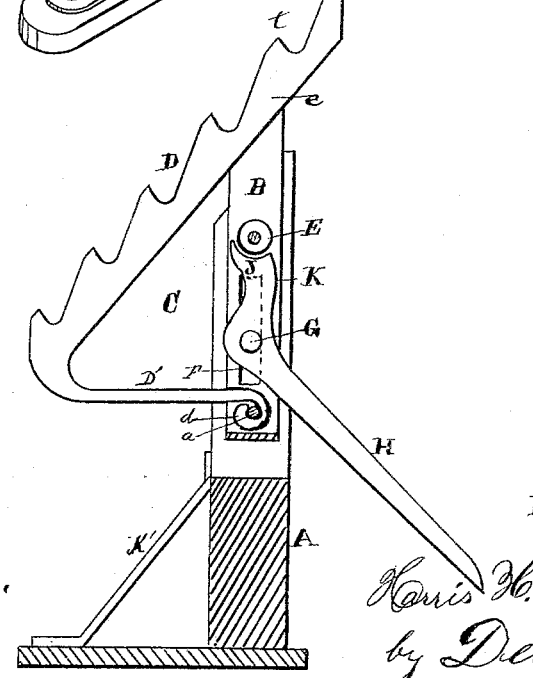


Fig. 2



Witnesses

Geo. H. Strong.

Thos. A. Brooks

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UNITED STATES PATENT OFFICE

HARRIS H. MARGESON, OF EAST OAKLAND, CALIFORNIA.

IMPROVEMENT IN WAGON-JACKS.

Specification forming part of Letters Patent No. **210,948**, dated December 17, 1878; application filed April 1, 1878.

To all whom it may concern:

Be it known that I, HARRIS H. MARGESON, of East Oakland, county of Alameda, and State of California, have invented a Wagon or Lifting Jack; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings.

My invention relates to a novel construction for wagon or lifting jacks; and it consists in a peculiar arrangement of a metallic triangular frame, the hypotenuse of which is fitted with a series of lifting-steps of peculiar construction, and in the combination with this device of an operating-lever and a supporting anti-frictional roller, the whole being mounted upon a frame, so that either of the steps of the incline may be employed to lift, and this lift be made without further adjustment in any case, while the construction of the lever and roller is such that the simple motion of forcing down the lever locks it in place.

Referring to the accompanying drawings, Figure 1 is a perspective view of the jack. Fig. 2 is a vertical section of the same.

The standard A, which supports the mechanism, is mounted on a pedestal, and is suitably braced by a suitable skeleton metallic brace, K′, as shown. This standard is slotted longitudinally, so as to admit the upright portion B of the triangular frame C. This rectangular frame has its hypotenuse and short side formed in one piece, the hypotenuse being a flat piece or blade having upwardly-projecting teeth *t t*, on which the axle rests, and the short side being a bar, D′, having its end *d* turned around a pin, *a*, set through the lower ends of the standards B B, which form the third side of the rectangular frame. The standards or pieces B, at their upper ends, clasp the toothed portion D, and are bolted to it at *e*. In the upper part of the space between the pieces B is mounted an anti-friction roller, E, which is the supporting-point of the whole lifting-frame when the device is holding a load. The uprights B B of the frame have vertical slots F cut in them on each side, so as to admit of the fulcrum-pin of the lever H passing through it transversely. These slots are long enough to admit of a vertical motion of the triangular frame past the fulcrum-pin of the lever. Transverse straps or bands I across the longitudinal slot in the standard serve to keep the triangular frame in position.

The operating-lever H is supported by the fulcrum-pin G, passing through the sides of the slotted standard, and the slots F in the upright part of the triangular frame. This lever is peculiar in shape, as shown, the surface at the end where the anti-friction roller rests when the jack is holding the weight being formed in a curve, J, to correspond to the periphery of the anti-friction roller E, which supports the triangular frame. Thus, in depressing the outer end of the lever, the roller E is forced up the inclined plane K at the wrist of the lever, carrying with it the triangular frame, and whatever weight is resting on the lifting-step, until it drops into the curved end J of the lever H, where, by the peculiar shape of this part of the lever, it is locked, and can only be released by again raising the outer end of the lever.

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

The triangular metallic frame consisting of the slotted uprights B, bearing friction-roller E, serrated plate D, and rod D′, with its end *d* coiled around pin *a*, and the cam-lever H K, in combination with the standards A, pedestal, and skeleton-brace K′, all constructed, arranged, and operated as and for the purpose set forth.

In witness whereof I have hereunto set my hand and seal.

HARRIS H. MARGESON. [L. S.]

Witnesses:

GEO. H. STRONG,

FRANK A. BROOKS.