B. M. SHERMAN.
Lifting Jack.

No. 202,197. Patented April 9, 1878.

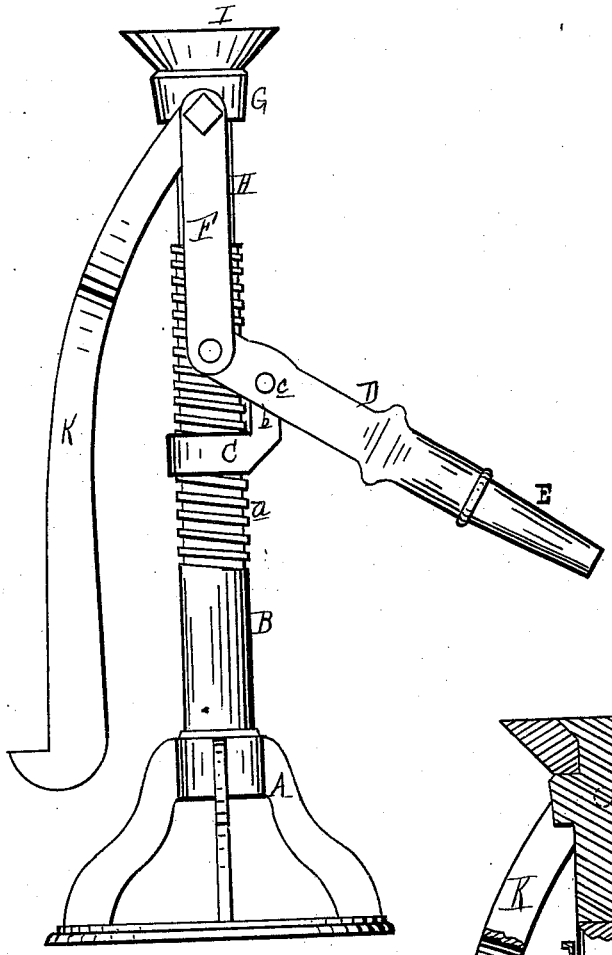

Fig. 1.

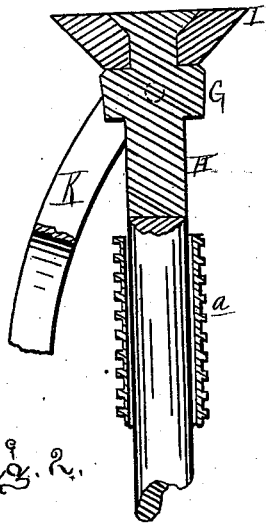

Fig. 2.

Witnesses:
Charles J. Hunt
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By Atty
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UNITED STATES PATENT OFFICE.

BENJAMIN M. SHERMAN, OF FLINT, MICHIGAN, ASSIGNOR OF ONE-HALF HIS RIGHT TO THOMAS VAN S. ROGERS, OF SAME PLACE.

IMPROVEMENT IN LIFTING-JACKS.

Specification forming part of Letters Patent No. **202,197**, dated April 9, 1878; application filed March 7, 1878.

To all whom it may concern:

Be it known that I, BENJAMIN M. SHERMAN, of Flint, in the county of Genesee and State of Michigan, have invented a new and useful Improvement in Combined Jack-Screw and Lifting-Jack; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is an elevation of my improved device. Fig. 2 is a vertical section, showing the rotating head or bearing-plate.

The nature of my invention relates to the combination in one machine of a jack-screw and lifting-jack, so arranged that it may be used as a jack-screw, a lifting-jack, and a track-lifter and stump-puller at will, or be used as a combined machine, as may be desired.

In the drawing, A is the base of the machine, preferably made of cast or malleable iron, and B is the standard, made of a suitable size and length of metal pipe, with a male thread, *a*, cut upon its outer surface for about three-quarters of the length of the standard, as shown. A nut, C, provided with a female thread corresponding to the male thread of the standard, and also provided with a lug, *b*, engages with the standard. To this lug is pivoted the bifurcated lever D, its free end terminating in a socket to receive the wooden handle E. This bifurcated lever is thus pivoted at *c* in such manner that the pivot-pin and lug form the fulcrum for the operation of the lever. Arms F, one upon each side, connect the inner ends of this bifurcated lever with the cap G, which is rigidly secured to the top of the plunger-rod H, which has a vertical reciprocating motion within the tubular standard. The machine, as thus constructed, is an adjustable lifting-jack, adjustable to varying required heights by means of the nut and threaded standard, and lifting by means of the lever and its connections; but, owing to the rigidity of the cap on the plunger-rod, it cannot be used as a jack-screw. To enable it to be employed as a jack-screw, I attach to said cap a revolving or rotating head or bearing-plate, I.

When the machine is placed under a weight which it is desired to raise, and the depression of the lever not raising the weight to the required height, the lever may then be used as a sweep to run the nut farther up the standard until the desired end is attained, the rotating head I allowing this to be done.

K is a hook, bifurcated at top, where it is pivoted to the bolt, by means of which the arms F are pivoted to the cap G. The addition of this feature enables the device to act in the triple capacity of a lifting-jack, a jack-screw, and a track-lifter and stump-puller.

What I claim as my invention is—

1. In a lifting-jack adjustable to varying heights, and in combination therewith, the revolving bearing-plate I on the top of the plunger-rod H, for the purpose of allowing said lifting-jack to be employed as a jack-screw when desired.

2. In a lifting-jack, the combination, with the hollow standard B, having male screw-thread *a'*, of the nut C, lever D, arms F, plunger-rod H, and revolving bearing-plate I, constructed and arranged substantially as described and shown.

BENJAMIN M. SHERMAN.

Witnesses:
H. S. SPRAGUE,
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