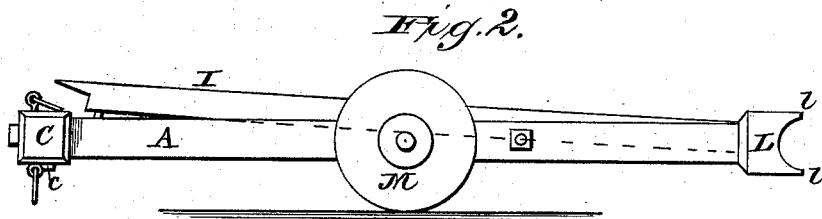
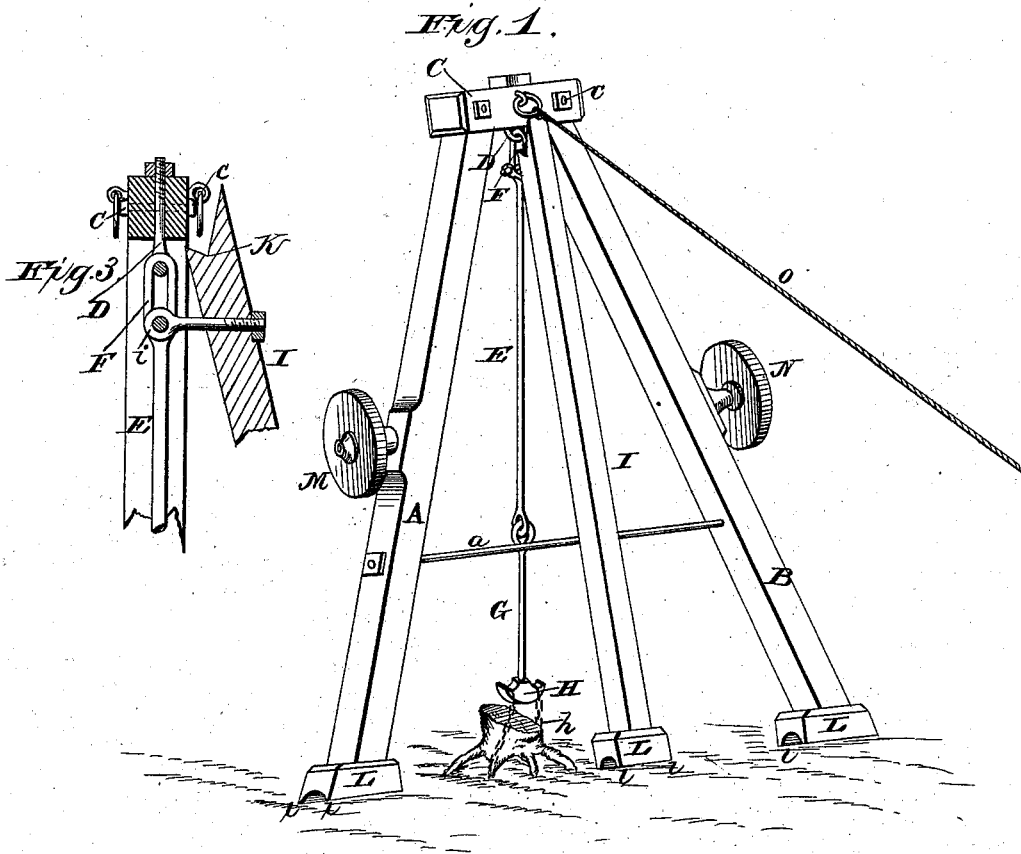


S. H. MCGIBENY.
Stump-Extractor.

No. 214,831.

Patented April 29, 1879.



WITNESSES
Frank L. Curand
E. W. Bradford

Sylvester H. McGibeny INVENTOR
By H. J. Ennis
ATTORNEY

UNITED STATES PATENT OFFICE.

SYLVESTER H. MCGIBENY, OF WEST ALMOND, NEW YORK.

IMPROVEMENT IN STUMP-EXTRACTORS.

Specification forming part of Letters Patent No. 214,831, dated April 29, 1879; application filed April 8, 1879.

To all whom it may concern:

Be it known that I, SYLVESTER H. MCGIBENY, of West Almond, in the county of Allegany and State of New York, have invented certain new and useful Improvements in Stump-Extractors; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a view, in perspective, of my invention. Fig. 2 is a side view, showing the elevator thrown upon the wheels for transportation; and Fig. 3 is a detached sectional elevation of the apex of the elevator.

This invention has relation to stump elevators or extractors; and it consists of certain improvements in the construction of the same, hereinafter more fully described, and particularly pointed out in the claim.

In the drawings accompanying this invention similar letters of reference marked thereon indicate like parts of the invention.

Two beams, A and B, are connected at their tops by a short stout cross-beam, C, in such a manner so as to somewhat resemble the letter A. The short beam C is mortised so as to receive the tongued ends of the beams A and B. A bolt, *c*, passing through each joint makes it secure, and at the same time admits of its being readily taken apart when it is desired to do so. A brace-rod, *a*, connects the beams A and B about midway of their length, to prevent them spreading in the act of pulling. A ring-bolt, D, passes through the short beam C and has depending from it a rod, E, provided at its junction with the ring-bolt D, with a link or loop, F, and at its other end with a shorter rod, G, to the lower end of which is attached the anchor shaped hook, H, to which is attached the chain *h*, made fast to the stump. A third upright beam, I, is provided at its upper end with screw-eyes or bolts *i*, for attaching it to the link F. It is also provided with a step, K, which, when in operation, comes in contact with the lower corner of the short beam C.

The lower ends of the beams A, B, and I

have permanently secured to them concave feet L, of novel construction, which prevent slipping of said beams, and also prevent the sinking of the beams in soft ground. The said feet L are oblong in shape, and their under sides are made of a semicircular hollow or concave form, the hollow shape presenting a large surface to the ground, and the ends *l* forming sharp projections, which prevent slipping. The beams A and B are provided with wheels M and N, the object of which will be fully understood by reference to Fig. 2.

The operation of the device is as follows: The extractor is laid flat on the ground, in such a position as will place the stump between the lower ends or feet of the beams A and B. The chain *h* is then secured to the stump, and then attached to the hook H in such a manner as will enable the device to begin lifting when the beams A and B have been raised to an angle of about seventy-five degrees by applying power to the rope or tackle O. After the beams A and B have passed the center, or an angle of ninety-five degrees, the third beam, I, is so set as to take effect, and the weight or force is partially transferred to it, and by continuing the power at O the stump is drawn clear of the ground, the extractor and stump both falling on their sides.

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

In a stump-extractor, the beams A and B, connected at their top by the short beam C, and provided at their lower ends with the hollow semicircular concave feet L, and further provided with the wheels M and N, in combination with the single beam I, detachably secured to the short beam C, and provided at its upper end with the step K, and at its lower end with the hollow semicircular concave foot L, constructed and operating substantially as herein shown and described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

SYLVESTER H. MCGIBENY.

Witnesses:

E. H. BRADFORD,
H. J. ENNIS.