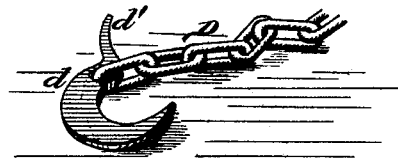
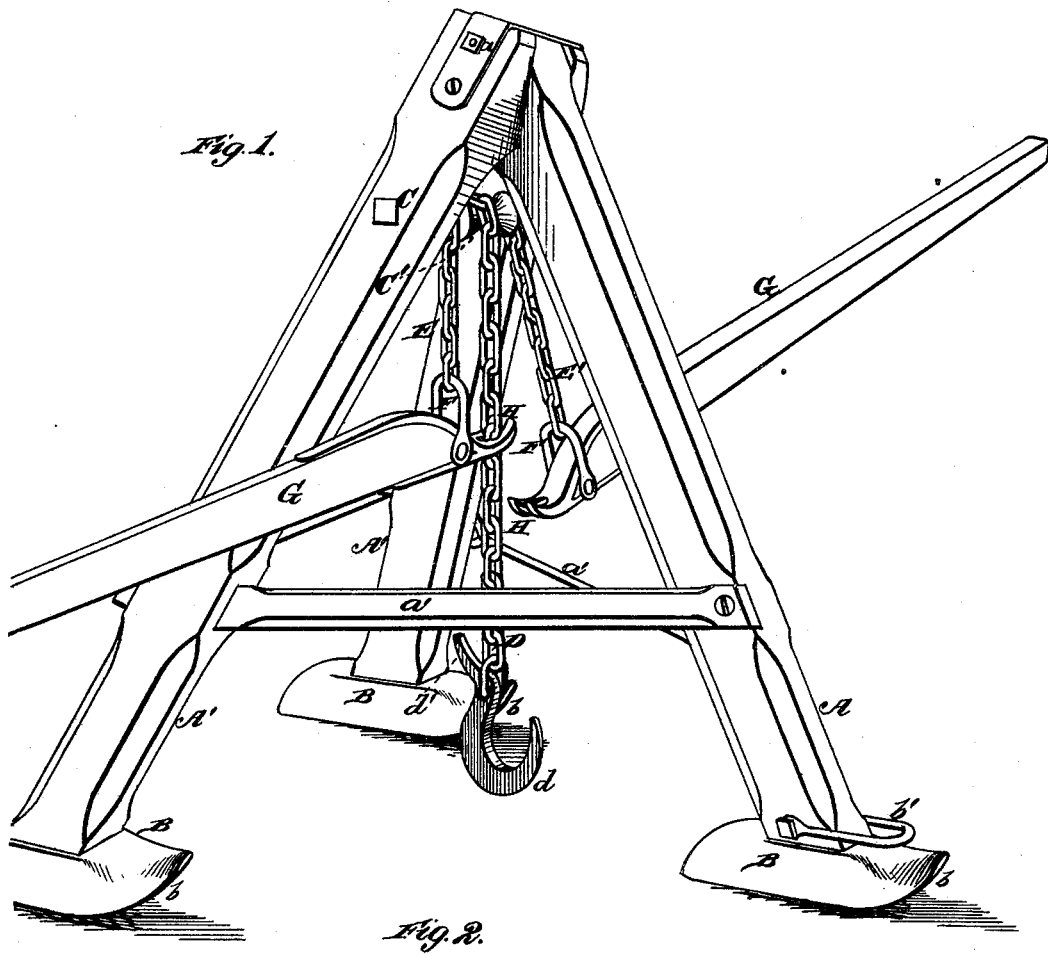


J. G. TRUMP.
Root and Stump Puller.

No. 213,473

Patented Mar. 18, 1879.



WITNESSES
Robert Everett
A. Clay Smith

By

INVENTOR.
John G. Trump
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ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOHN G. TRUMP, OF DENMARK, MICHIGAN.

IMPROVEMENT IN ROOT AND STUMP PULLERS.

Specification forming part of Letters Patent No. **213,473**, dated March 18, 1879; application filed January 11, 1879.

To all whom it may concern:

Be it known that I, JOHN G. TRUMP, of Denmark, in the county of Tuscola and State of Michigan, have invented a new and valuable Improvement in Root and Stump Pullers; 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 annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a perspective of my root and stump puller, and Fig. 2 is a detail view of the chain with hook attached.

My invention relates to a device for pulling stumps, roots, and the like; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth.

In carrying out my invention, I employ a properly-braced tripod, each foot of which is supported on runner-shoes, the beveled portions of which all point in the same direction, the forward foot being provided with a clevis, or other suitable means for connecting with a draft-power, for convenient transportation. The forward leg is bolted between the two rear legs, and a bolt passing through said rear legs near the top carries a loose pulley in the center, upon each side of which depends a chain.

The stump-chain operates over the loose pulley, and the drop-chains are of differential lengths, each having at the lower extremities a clevis, connected to a hand-lever having a jaw-clutch upon the inner end.

It will thus be observed that by my construction one of the hand-levers hangs lower than the other, and consequently the jaws clamp the stump-chain and manipulate the same below the corresponding operation of the other.

The stump-chain has hooks upon each end, one of which has an upwardly-extending arm, which is adapted to clamp roots and the like between itself and the chain.

Referring to the drawings, A represents the forward, and A' A' the rear, legs of the tripod, bolted together at *a*, having suitable braces *a'*, and each leg being provided with runner-shoes B, having beveled lower surfaces, *b*, in one direction, as shown. A clevis, *b'*, allows draft attachment for transportation of the device.

C represents a bolt, passing through the legs A', carrying a loose pulley, C', over which operates the stump-chain D, having hooks at each end, one of which, *d*, has an upwardly-projecting arm, *d'*, as shown.

Depending from the bolt C is a short chain, E, from one side of the pulley, and a long chain, E', from the opposite side. The lower end of each chain is provided with a clevis, F, the connecting-bolt of which acts as the fulcrum of levers G, having jaws H upon their inner ends, which engage the stump-chain, as is obvious, one operating above the other upon the chain.

I claim—

1. The combination of the bolt C, pulley C', stump-chain D, long and short chains E E', clevis F, and lever G H, as and for the purpose specified.
2. The stump-chain D, provided with the root-hook *d*, having arm *d'*, as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN G. TRUMP.

Witnesses:

E. H. TAYLOR,
F. BOURNS.