

Morelle & Morelle.
Stump Extractor & Press Combined.
No 93,548. Patented Aug. 10. 1869.

Fig. 1.

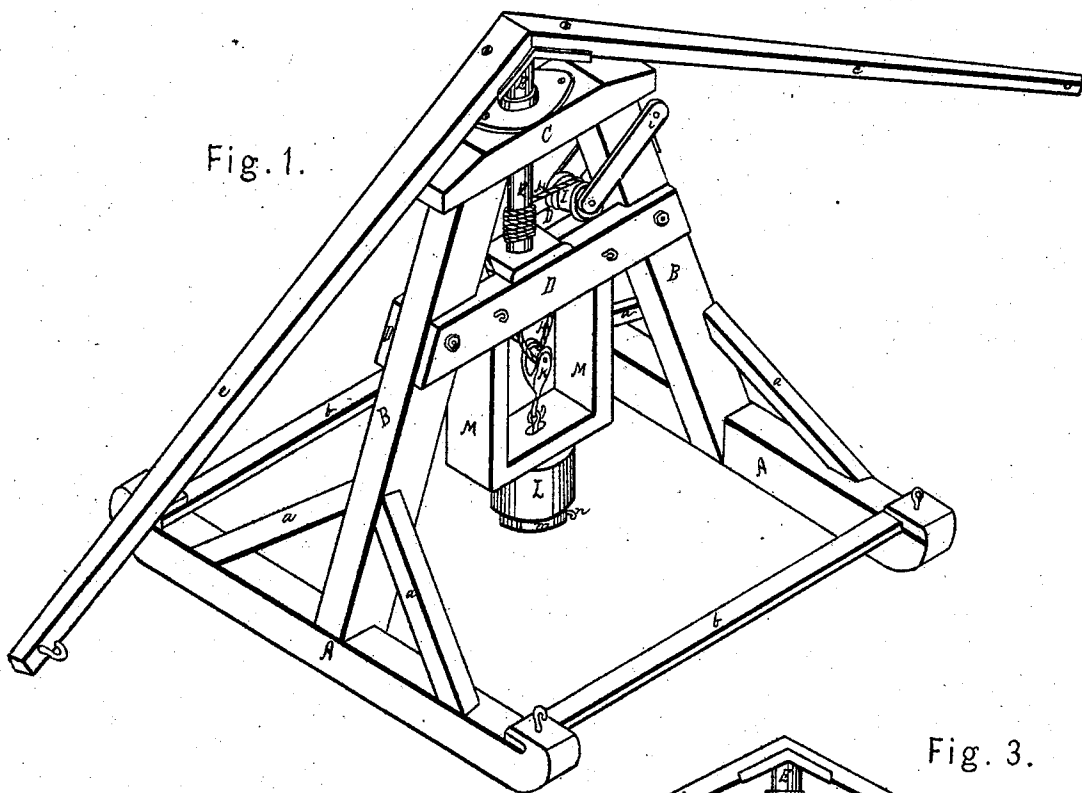


Fig. 2.

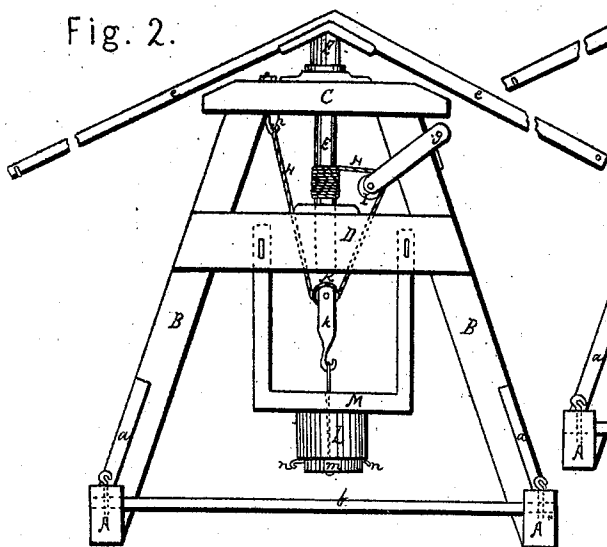
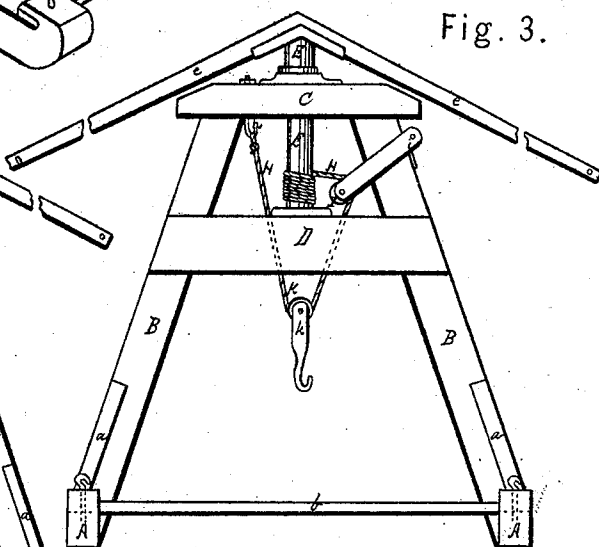


Fig. 3.



Witnesses

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NICHOLAS V. MORELLE AND LOUIS J. MORELLE, OF NEWARK,
WISCONSIN.

Letters Patent No. 93,548, dated August 10, 1869.

IMPROVED STUMP-EXTRACTOR AND PRESS COMBINED.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, NICHOLAS V. MORELLE and LOUIS J. MORELLE, of Newark, Rock county, in the State of Wisconsin, have invented certain new and useful Improvements in a Combined Stump-Puller and Press; and we do hereby declare the following description and accompanying drawings, are sufficient to enable any person skilled in the art or science to which it most nearly appertains, to make and use our said invention or improvements, without further invention or experiment.

The nature of our invention and improvements consists in the construction and arrangement of a combined stump-puller and press, herein below fully described, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of the machine complete, in the combined character of stump-puller and press;

Figure 2 is a vertical section of the same; and

Figure 3 is a similar view, except having the pressing-device removed, so as to exhibit the machine when ready for use in pulling stumps.

Similar letters of reference indicate corresponding parts.

Letter A represents the sills of the machine.

B, the posts.

D are girders, halved on and bolted thereto.

C, the cap or plate, tenoned to the posts B.

a are braces to the posts B, and

b are detachable horizontal lateral supporters for the sills, one of which is removed when the machine is drawn or moved (placed) over a stump that is to be pulled by it.

E represents a vertical round metallic shaft, which rotates in suitable boxes secured to the cap C and girders D, as shown in the drawings.

Said shaft is actuated by the arms or sweeps e, which are rigidly fixed to the upper end or top thereof, for which purpose such device may be employed as shall best afford the necessary strength and convenience of adaptation for the purpose in question.

The shaft E is provided with a suitable rope or chain, H, one end of which is rigidly fixed thereto.

The other is passed over the guide-pulley I of the pivoted swinging frame c', then downward under the pulley k of the hook h, and upward, terminating at and secured to the hook s, fixed to the cap C, all as shown in the drawings.

The foregoing description fulfils the conditions necessary for extracting stumps, as seen in fig. 3.

The device for pressing is described as follows, and fulfilling substantially the following conditions:

A frame, M, is fitted to the girders D, and held in position by detachable bolts, as shown in the drawings.

A tub or box, L, open at the top and bottom, is placed under said frame, of equal horizontal diameter with the width of said frame, and provided with a false bottom or plunger, centrally provided with a vertical bolt, made fast thereto, passing through the bottom of said frame in a suitable slot, and having an eye at the top which engages with the hook h, as seen in figs. 1 and 2.

The stops n are only useful for holding the tub L and plunger together when not in use.

The press is operated by unwinding the rope from the shaft E, and letting down the tub L, so that it may be filled at the top. Then, by actuating the arms e from left to right, a very great pressure will be exerted by the plunger upon the contents of the tub, expressing every particle of juice from any article which appropriately may be subjected thereto.

This press will be very convenient and useful in making cider or wine in a small way. When not wanted for this purpose, the frame M, tub L, and plunger may be laid aside. The machine will then be in suitable condition for employment in the field for extracting stumps, in which the operation is as follows:

Remove one of the supporting-bars b, draw or place the machine astraddle of the stump, replace the bar b, unwind the rope from the shaft E, let down the hook h, so as to engage with a chain first passed around or under a lateral root of the stump, adjust the rope, and hitch the teams or horses to the outer ends of the arms e, which may be of any available length, drive from left to right, and the most formidable stump will yield at once.

What we claim as our invention and improvements, and desire to secure by Letters Patent, is—

In combination with a combined stump-puller and press, the arrangement and employment of the shaft E, rope or chain H, pulley I, pivoted frame c', pulley k, hook h, frame m, tub and plunger L, the frame consisting of the parts A B C D, a b, and arms e, when the whole is constructed and arranged substantially as and for the purpose set forth, to operate as specified.

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LOUIS J. MORELLE.

Witnesses:

J. C. CONOVER,
MICHAEL GERBIG.