(No Model.)

C. E. BASSETT.

STUMP EXTRACTOR.

No. 454,107. Patented June 16, 1891.

Fig. 1

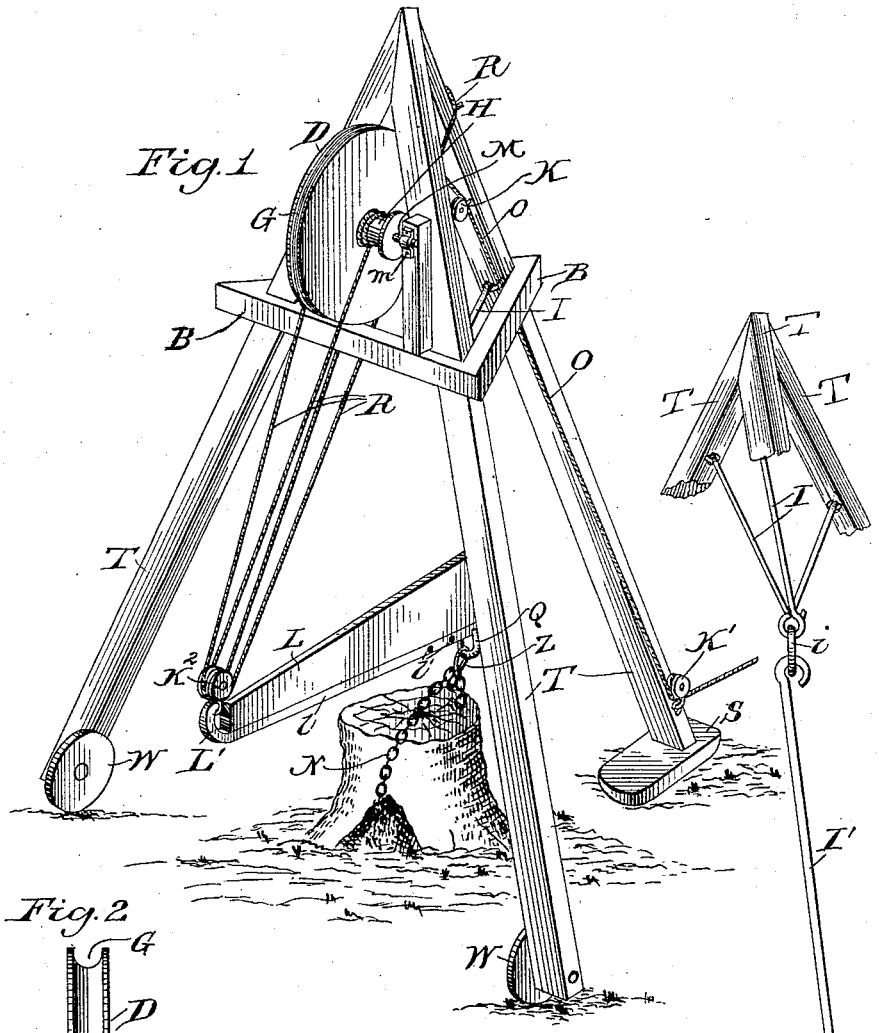


Fig. 2

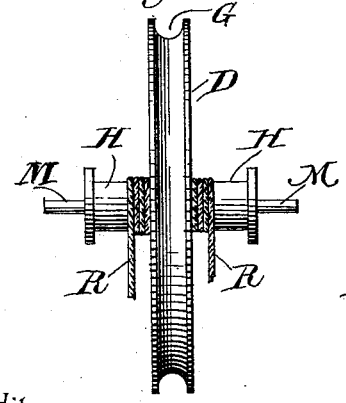
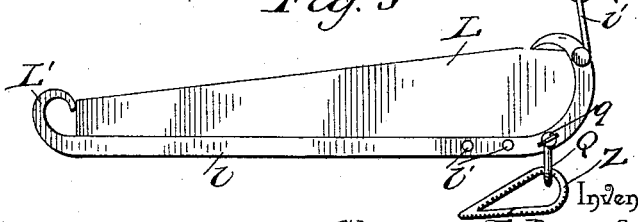


Fig. 3



Witnesses:

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N. L. Gollamer

Inventor:

Chancey E. Bassett,

By his Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

CHANCEY E. BASSETT, OF BURNIP'S CORNERS, MICHIGAN.

STUMP-EXTRACTOR.

SPECIFICATION forming part of Letters Patent No. 454,107, dated June 16, 1891.

Application filed February 19, 1891. Serial No. 382,014. (No model.)

To all whom it may concern:

Be it known that I, CHANCEY E. BASSETT, a citizen of the United States, residing at Burnip's Corners, in the county of Allegan and State of Michigan, have invented a new and useful Stump-Extractor, of which the following is a specification.

This invention relates to hoisting devices, and more especially to devices of that class known as "stump-extractors;" and the object of the same is to effect certain improvements therein.

To this end the invention consists of the specific details of construction hereinafter more fully described and claimed, and as illustrated on the sheet of drawings, wherein—

Figure 1 is a general perspective view of this device. Fig. 2 is an enlarged rear elevation of the winding-drum. Fig. 3 is a similar elevation of the lifting-lever.

Referring to the said drawings, the letters T indicate the legs of a tripod, which are united at their upper ends and are connected near such point by horizontal braces B. To the lower ends of two of the legs are attached wheels W, and the lower end of the other leg carries a shoe S, by which it is supported and to which a team may be hitched when it is desired to move the tripod from place to place. The proportions of these parts will depend upon the size and strength it is desired the device shall have.

Journaled in bearings *m* near the upper ends of two of the legs T is a main shaft M, upon which is mounted a drum D, having a large groove G in its periphery, and also having hubs H, about six inches in diameter. An operating-rope O is wound around this drum in the groove therein, leads over a block K near the apex of the tripod, down the front leg of the same, and under another block K′ near its lower end, and the horse or horses are to be hitched to a whiffletree connected to this rope, all in a manner well understood. Wound in the opposite direction around said hubs H are ropes R, which pass thence downwardly through a double block K^2, attached to the end of a lever L, and thence upwardly, and are connected to the tripod near its apex. The difference in the diameters of the drum D and its hubs is considerable, and hence when the rope O is drawn upon the ropes R will be very slowly wound upon said hubs, and the block K^2 will cause this end of the lever L to rise with only half of their speed.

The letters I indicate links preferably connected to the several legs T near their upper ends and at their lower ends taking into a large ring *i*, and I′ is a stout rod having a hook at its upper end engaging said ring and having a clevis *i′* at its lower end pivotally connected to one end of the lever L. The latter has a body of wood with a facing *l* of iron or steel, wherein are several holes *l′*, and at its lower end this facing is turned up and provided with an eye L′, to which said double block K^2 is attached. Another clevis Q is detachably connected by a bolt *q*, removably inserted through one of the several holes *l′*, and N is a chain connected at one end to this clevis. Z is a grab-ring linked into said clevis Q at its upper end and having its lower end elongated, so as to "grab" any of the links of the chain desired.

In operation the device is hauled to the proper position over a stump to be pulled, the chain N is passed under the stump, drawn as tight as possible, and its other end passed through the grab-ring and engaged therein, and after this, the team being hitched to the rope O and started up, the drum D revolves, the ropes R are wound upon the hubs H, and the rear end of the lever L slowly raised around the clevis *i′*, so as to draw the stump from the ground. If the stump be a small one, the bolt *q* is moved farther from the clevis *i′* and inserted in another of the holes *l′*, whereby greater speed, but less power, will result and the stump can be more quickly withdrawn from the ground. In other respects the device is capable of all the uses to which stump-extractors are generally put.

I reserve the right to make all the changes in the construction and arrangement of parts which are desirable and which may not be considered a departure from the spirit of the invention.

What is claimed as new is—

1. In a stump-extractor, the combination, with a tripod, a lever connected at one end thereto, and a chain adjustably attached to said lever between its ends, of a shaft journaled in bearings on said tripod near its upper end, a large drum having small hubs all

mounted on said shaft, an operating-rope leading around said drum in one direction to a whiffletree, and other ropes leading in an opposite direction around said hubs and connected to the free end of the lever, as and for the purpose set forth.

2. In a stump-extractor, the combination, with a tripod, a lever linked at one end thereto, and a chain adjustably attached to said lever between its ends, of a shaft journaled in bearings on said tripod near its upper end, a large drum having small hubs all mounted on said shaft and the drum having a groove in its periphery, an operating-rope leading in one direction around the drum within said groove and passing about pulleys carried by the tripod to a whiffletree, and other ropes leading in an opposite direction around said hubs through a double block attached to the free end of said lever and secured to said tripod near its apex, as and for the purpose set forth.

3. In a stump-extractor, the combination, with a windlass mounted in bearings at the upper end of a tripod, an operating-rope extending from said windlass to the ground, and power-ropes leading downwardly from said windlass, of a rod connected to said tripod near its apex and having a clevis at its lower end, a lever consisting of a wooden body with an iron facing, the latter having a number of holes therein and an eye at one end and the clevis being connected with the opposite end, while said power-ropes are connected to said eye, a bolt removably seated in one of said holes, a clevis on said bolt, and a chain connected thereto, as and for the purpose set forth.

4. In a stump-extractor, the combination, with a tripod, a lever connected at one end thereto, and a windlass mounted on the tripod and connected to the other end of the lever, of a clevis adjustably connected to said lever between its ends, and a chain having a grab-block linked into said clevis, as and for the purpose hereinbefore set forth.

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

CHANCEY E. BASSETT.

Witnesses:
LEROY P. ENOS,
HARRY C. GORDON.