

No. 737,925.

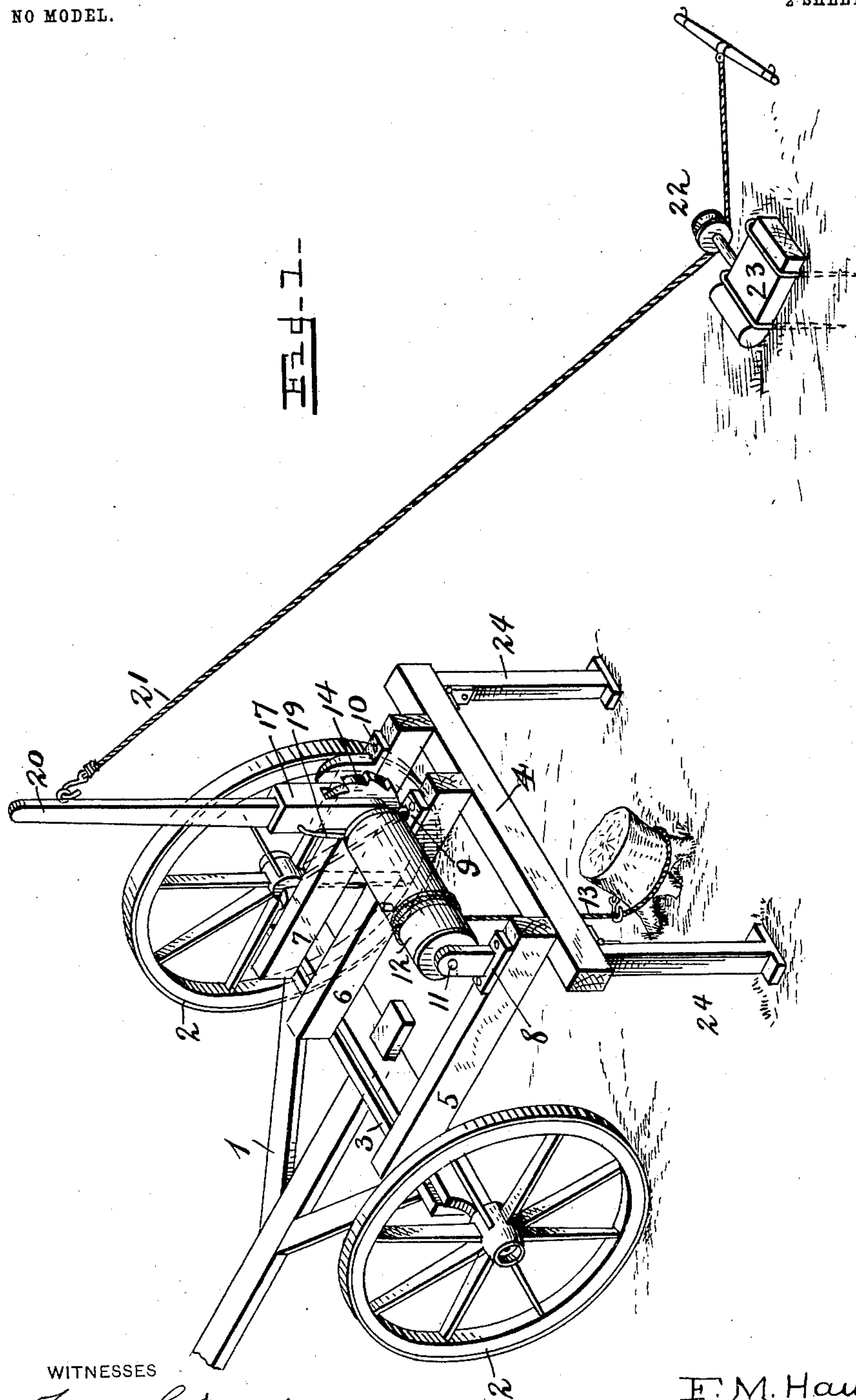
PATENTED SEPT. 1, 1903.

F. M. HAWKINS.
STUMP PULLER.

APPLICATION FILED JUNE 1, 1903.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES

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J. E. Lambert

INVENTOR

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att

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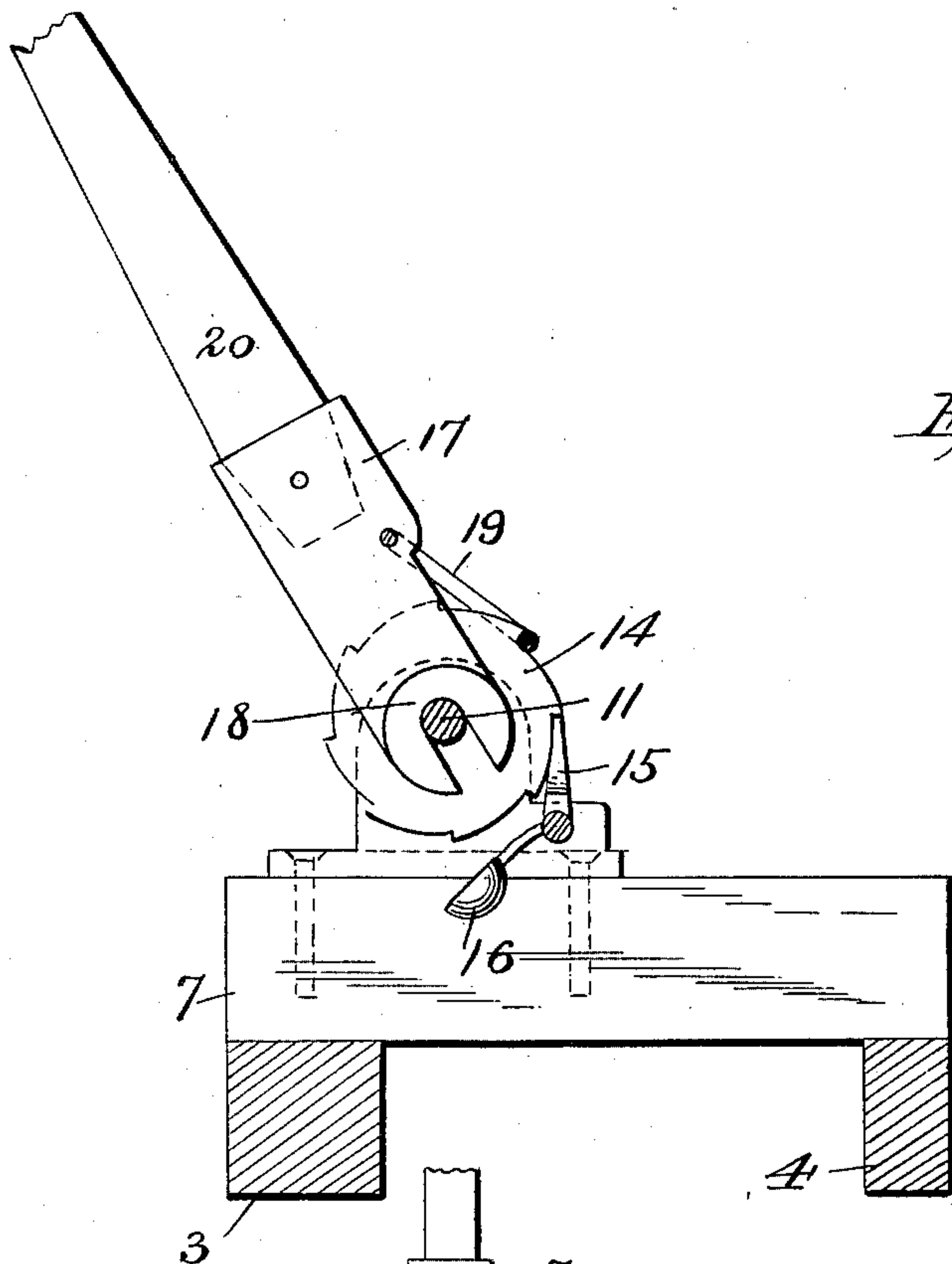


Fig. 2.

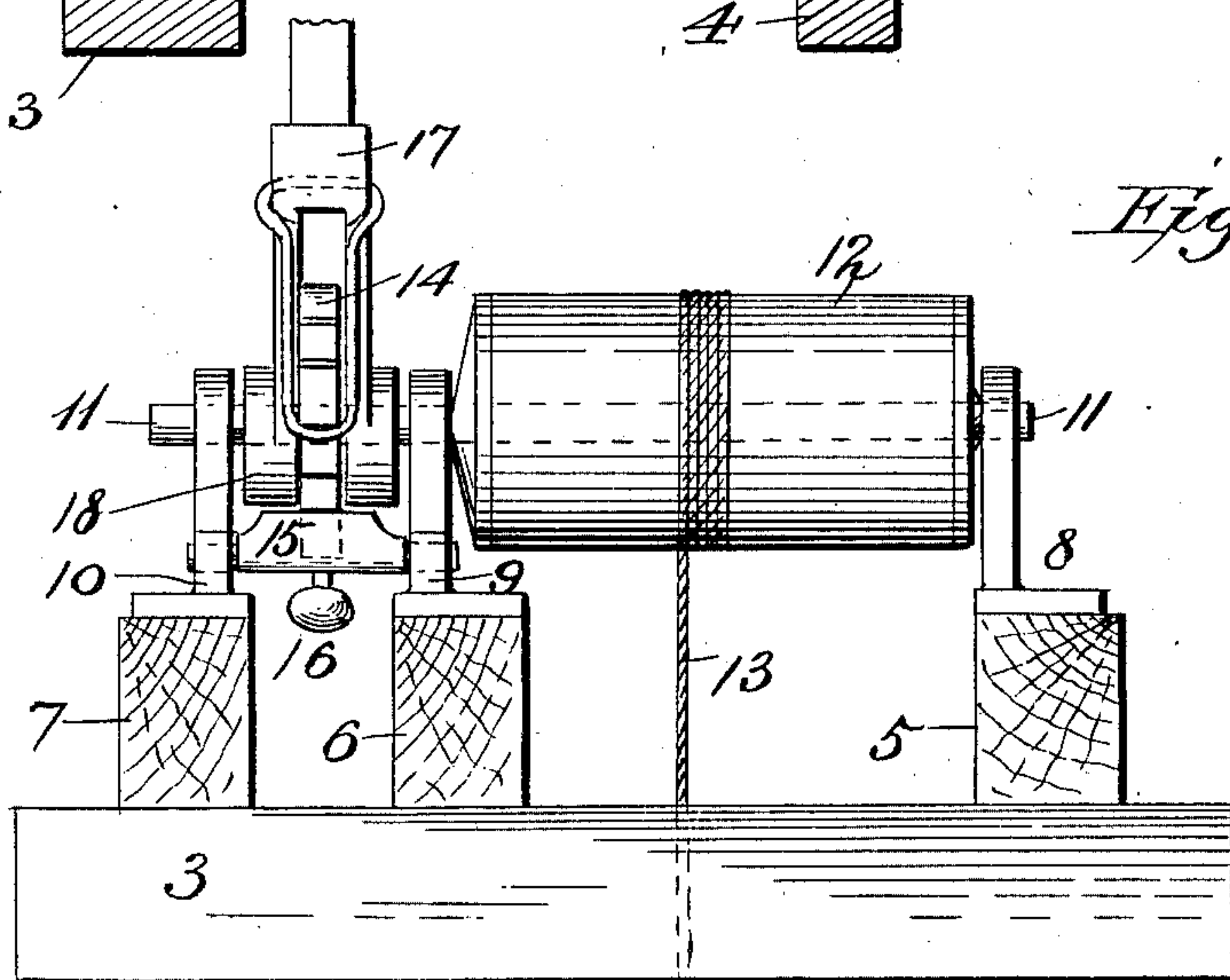


Fig. 3.

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UNITED STATES PATENT OFFICE.

FLETCHER M. HAWKINS, OF FAIRLIE, TEXAS.

STUMP-PULLER.

SPECIFICATION forming part of Letters Patent No. 737,925, dated September 1, 1903.

Application filed June 1, 1903. Serial No. 159,539. (No model.)

To all whom it may concern:

Be it known that I, FLETCHER M. HAWKINS, a citizen of the United States, residing at Fairlie, in the county of Hunt and State of Texas, have invented certain new and useful Improvements in Stump-Pullers; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
 10 pertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention is a stump-puller; and it consists of a frame adapted to be secured to the rear end of a wagon, having a drum mounted on said frame, a cable, one end secured to said drum and the other adapted to be secured to a stump, a ratchet-wheel, pawl, and
 20 lever adapted to operate said drum.

In the accompanying drawings, Figure 1 is a perspective view of my invention. Fig. 2 is a side view of Fig. 1, partly in section, the right-hand longitudinal sill and bearing being
 25 cut away. Fig. 3 is a front view of my invention.

My invention is described as follows:

1 represents the rear part of a wagon; 2, the rear wheels.

30 3 represents the front cross-beam of the frame; 4, the rear cross-beam of the frame.

5, 6, and 7 represent the three longitudinal bearing-beams, which are secured on the upper faces of the cross-beams 3 and 4. To the upper faces of the longitudinal beams 5, 6, and 7 are secured bearings 8, 9, and 10, and journaled in said bearings is a cylinder 11, and to that part of the cylinder between the bearings 8 and 9 is rigidly secured a drum 12, and
 40 to said drum and adapted to be wound around the same is secured one end of a cable 13, the other end of the cable adapted to be secured to a stump or other thing desired to be elevated. To that part of the cylinder between
 45 the bearings 9 and 10 is rigidly secured a ratchet-wheel 14, and in said bearings 9 and 10 is pivoted a dog 15, provided with a weight 16 to make the dogs surely catch in the ratchet-wheel when the wheel is turned.

50 A lever-socket 17 is provided with a slotted

nose 18, the slots adapted to fit over the cylinder 11. A link 19 has one end pivoted in the lever-socket, and the other is adapted to catch in the notches of the ratchet-wheel. Secured in the lever-socket is a lever 20, provided with means for holding one end of a
 55 cable 21, the other end of the cable passing under a pulley 22 and having means at its end to secure a team. Said pulley 22 is secured to a block 23 or any other thing, whereby the
 60 pulley may be held down.

To extract the stump, the cable 13 is unwound from the drum 12, and its free end is secured to the stump in any way that is most surely to hold it. The lever is then pulled
 65 on and the link 19 rotates the ratchet-wheel 14 notch by notch, and as each notch passes the dog 15 the dog catches it and holds it until another pull is made on the lever, and thus the stump is extracted. The drum may be
 70 two sizes—that is, one part of it may be larger than the other part—the purpose of which will be readily understood, and the lever may be made much longer than is relatively shown in the drawings, and when the cable is wrapped
 75 around the smaller part of the drum it may be much larger than the cable ordinarily used, and so the cable 21 may be under these circumstances much larger than ordinary cable.

The front cross-beam 7 rests in front of the
 80 bolster of the hind gearing of the wagon, and the rear cross-beam 4 rests on posts 24, which may or may not be hinged to said cross-beam.

Having described my invention, what I claim as new, and desire to secure by Letters
 85 Patent, is—

The combination of the frame, consisting of cross-beams 3, and 4, and longitudinal beams 5, 6, and 7; bearings 8, 9, and 10, mounted on said longitudinal beams; a cylinder 11,
 90 journaled in said bearings; a drum 12, rigidly secured on one end of said cylinder; a ratchet-wheel 14, rigidly secured on the other end of said cylinder, and between the bearings 9, and 10; a dog 15, provided with a
 95 weight 16, hinged between said bearings 9, and 10, and adapted to catch in the notches of the ratchet-wheel; a lever-socket 17, provided with a slotted nose 18, adapted to fit on
 100 the cylinder 11; a link 19, having one end

hinged in said lever-socket, and the other adapted to catch over the notches of the ratchet-wheel; a lever 20, secured in said lever-socket; a cable 21, secured to the free end
5 of said lever, and passing under a pulley 23, secured to the ground, substantially as shown and described and for the purposes set forth.

In testimony whereof I affix my signature in presence of two witnesses.

F. M. HAWKINS.

Witnesses:

JOHN CLICK,
B. N. PRICE.