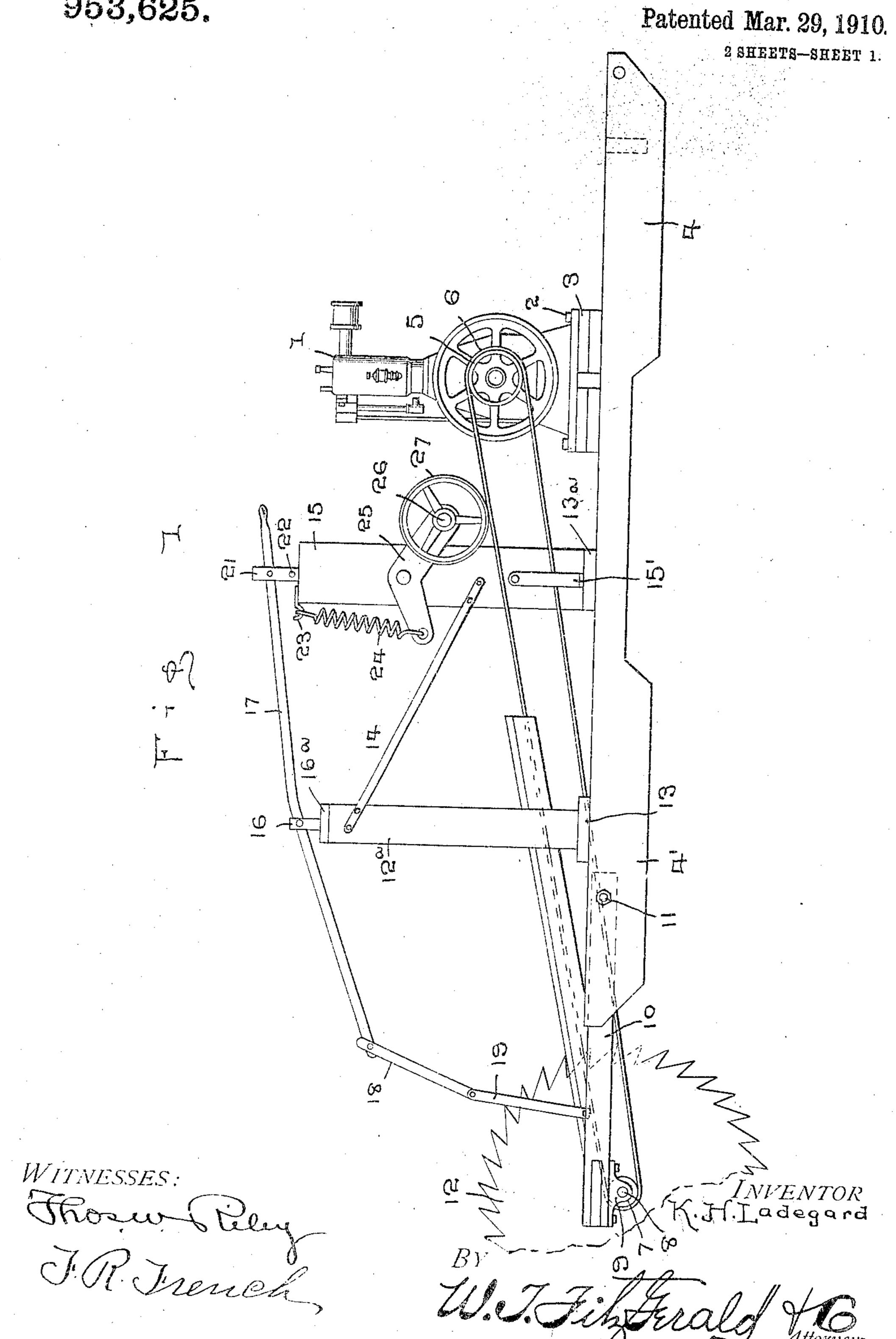
K. H. LADEGARD. ICE CUTTING MACHINE.

APPLICATION FILED JULY 13, 1909.



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UNITED STATES PATENT OFFICE.

KNUD H. LADEGARD, OF LITCHFIELD, NEBRASKA.

ICE-CUTTING MACHINE.

953,625.

Specification of Letters Patent. Patented Mar. 29, 1910.

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To all whom it may concern:

Standard 12a are the laterally extending

5 State of Nebraska, have invented certain cross bar 13a by means of the braces 15'. 10 able others skilled in the art to which it ap- which is passed and pivotally secured there-

improvements in ice cutting machines and ing bar 18, said coöperating bar being in my object is to provide a device that may be turn pivoted to the extension 19 of a sub- 70 15 readily transported from place to place, in stantially inverted T-shaped cross bar 20, structed and a further object is to provide a | bars 10 and 10' and countersunk therein. device that may be regulated according to Secured to said standard 15 and extending

that will be simple and economical in con-through which the free end of said lifting

25 elevation of my machine, the saw nearest the the pivoted parallel bars 10 and 10' will be

39 ence characters.

35 thereon by means of bolts 2, said cross bars 25, said L-shaped member being pivoted mounted thereon a pulley 5 and power from purpose of which is obvious. 40 the engine is supplied to the machine through | It will be seen that applicant has prothe medium of a belt 6 mounted on said | vided a machine that may be readily transand pulley 7 mounted on the shaft 8, said; that can be easily regulated according to shaft being mounted in the bearings 9, which | the depth of the cut desired, and it will still 100 45 are secured to the rear ends of a pair of further be seen that a machine has been proparallel bars 10 and 10' pivotally mounted | vided that although simple and novel in between the rear runners 4'. Said parallel | construction, is effective in operation. bars are pivoted between said rear runners! 4' by means of cross bar 11 and one or more 50 circular saws are adapted to be mounted on said shaft 8, whereby it will be seen that when power is applied to the pulley 7, from the engine 1, said saws 12 will be operated.

The standard 12° is secured to a cross bar 55 13 mounted between the rear runners 4', and secured to the upper portion of said mounted between said bars and carrying one

Be it known that I, Knud H. Ladegard, braces 14 secured at the ends, opposite those a citizen of the United States, residing at secured to said standard, to a second stand-Litchfield, in the county of Sherman and lard 15 secured at its base to an additional 60 new and useful Improvements in Ice-Cut- On the top of the standard 12a is mounted ting Machines; and I do hereby declare the ! the horizontal beam 16a to which is secured following to be a full, clear, and exact de- about centrally the vertically extending and scription of the invention, such as will en-substantially V-shaped keeper 16, through 65 pertains to make and use the same. to a lifting bar 17. To one end of said lift-My invention relates to new and useful ing bar 17 is pivotally secured a coöperatpursuit of the objects for which it is con- | the head of which is secured to the parallel the depth of the cut desired. upwardly therefrom and thence downwardly 75 20 A still further object is to provide a device—along—one of its sides, is the keeper 21, struction and effective in operation. bar 17 extends, said keeper 21 having the Referring to the drawings which form registering openings 22 therein, whereby part of this application. Figure 1 is a side when said lifting bar is pushed downwardly, 80 observer and bar 10 having been removed. raised upwardly carrying the saws there-Fig. 2 is a top plan view of the machine. with, and a pin inserted in said registering Corresponding parts throughout the sev- openings 22 above the lifting bar 17 would eral views are designated by similar refer- be adapted to hold the saws in the raised 85 position, if so desired. Secured to the In carrying out my invention, 1 indicates impper portion of said standard 15, is a hook, an engine of any preferred type, but for con- from which is suspended a yielding spring venience is here shown as a gas engine, 24, the opposite end of which engages one mounted upon cross bars 3 and secured end of an approximately L-shaped member 90 3 being mounted on the forward runners 4 about centrally to the standard 15, and which permit of the device being moved mounted in the opposite end thereof is a upon ice. The fly wheel of the engine 1 has | shaft 26 carrying the belt tightener 27, the

pulley 5 at one end and passed around a sec- ported on the ice from place to place, and

What I claim is:

In an ice cutting machine, the combina- 105 tion with a pair of forward and rear runners, an engine mounted on cross bars between said forward runners, a pair of vertical standards mounted between said runners, a pair of parallel bars pivotally 110 mounted between said rear runners, a shaft

or more circular saws, means for coöperation between said engine and said saws, and a lever fulcrumed on a keeper carried above the rear vertical standard with additional b leverage secured to one end of said lever and to said parallel bars, the forward vertical standard having a metallic keeper secured and extending parallel to one of its sides through which the opposite end of said lever extends and registering openings in said keeper, whereby when said saws are

raised or lowered through means of said lever, said lever can be held in any desired position.

In testimony whereof I have signed my 15 name to this specification in the presence of two subscribing witnesses.

KNUD H. LADEGARD.

Witnesses; GEO. SLOTE, B. H. ACHENBACH.