

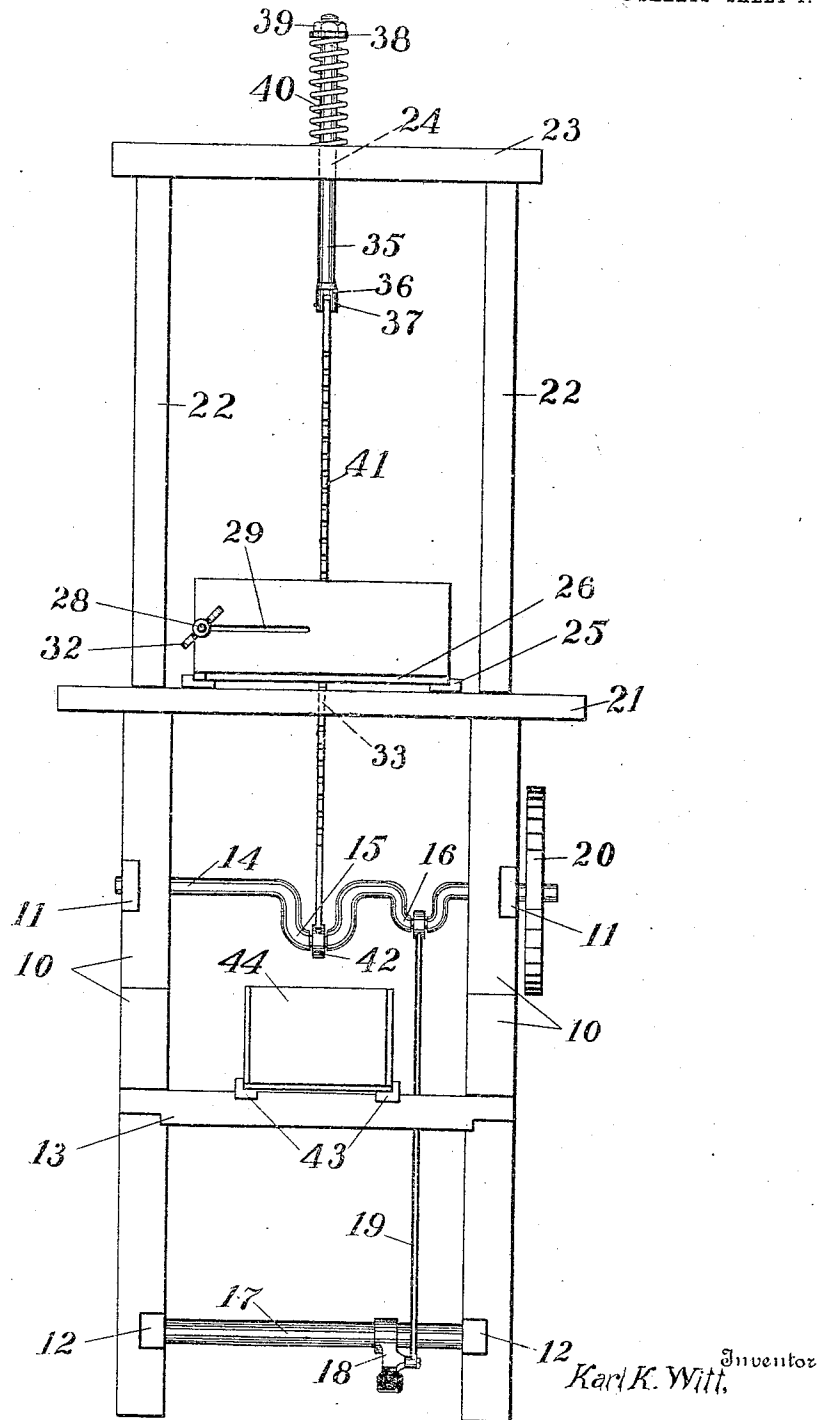
K. K. WITT.
ICE SAW.
APPLICATION FILED APR. 8, 1909.

958,684.

Patented May 17, 1910.

2 SHEETS—SHEET I.

Fig. 1.



Witnesses

J. S. Freeman.

[Signature]

By

[Signature]

Attorney

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2 SHEETS—SHEET 2.

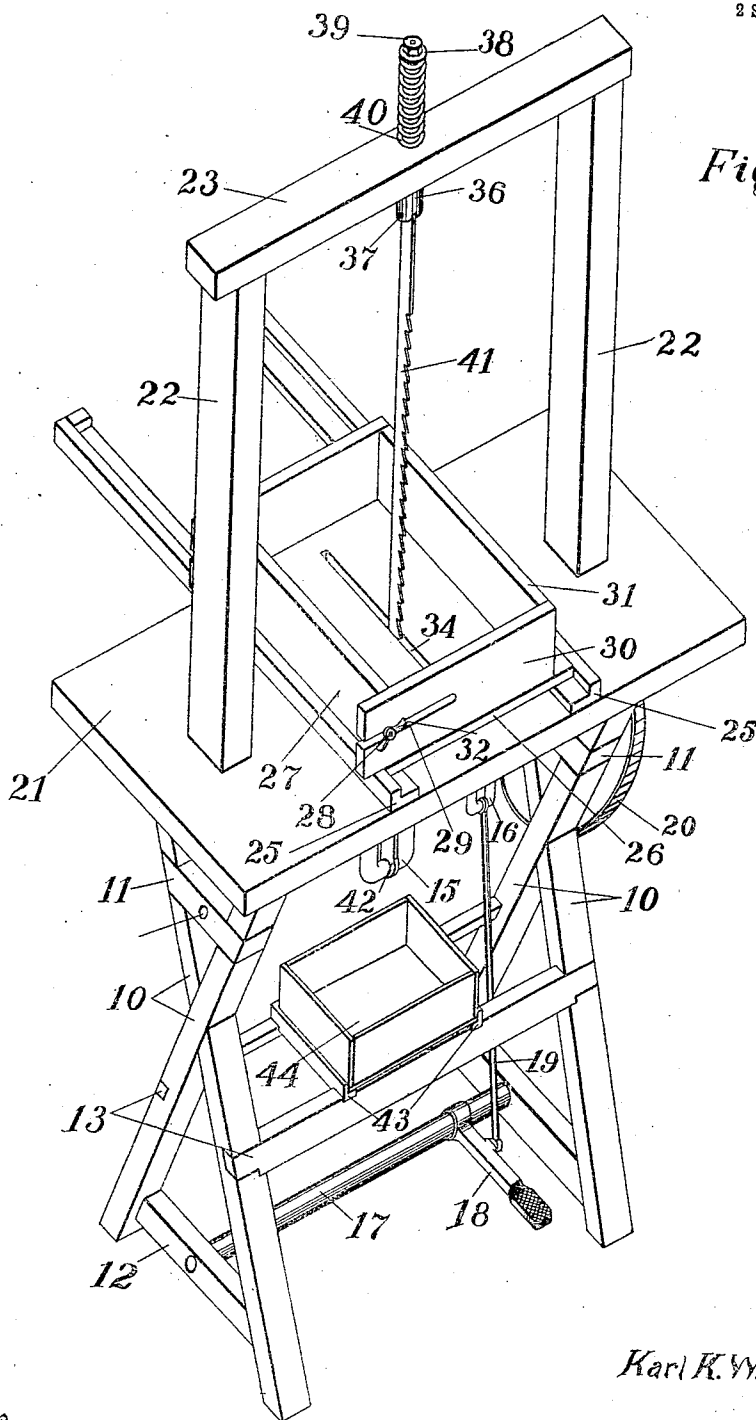


Fig. 2.

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UNITED STATES PATENT OFFICE.

KARL K. WITT, OF HAZELHURST, WISCONSIN.

ICE-SAW.

958,684.

Specification of Letters Patent.

Patented May 17, 1910.

Application filed April 8, 1909. Serial No. 488,760.

To all whom it may concern:

Be it known that I, KARL K. WITT, a citizen of the United States, residing at Hazelhurst, in the county of Oneida, State of Wisconsin, have invented certain new and useful Improvements in Ice-Saws; and I do hereby 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 appertains to make and use the same.

This invention relates to saws and has a special reference to a saw designed to saw blocks of ice into smaller pieces.

One object of the invention is to improve the general construction of saws of this character.

Another object of the invention is to provide a device of this character with means for holding and guiding a block or other lump of ice.

A further object of the invention is to provide a means whereby the holding device may be adjusted so that various sizes of blocks may be accommodated therein or various sizes of portions cut from a block.

With the above and other objects in view the invention consists in general of a table, guides held on the table, and an ice container of novel construction supported to move in said guides.

The invention consists in certain novel details of construction and combinations of parts, hereinafter fully described, illustrated in the accompanying drawings, and specifically set forth in the claims.

In the accompanying drawings, like characters of reference indicate like parts in the several views, and Figure 1 is a perspective view of a saw embodying this invention. Fig. 2 is a front elevation thereof.

The frame of the saw comprises crossed end bars 10 which are braced above the point of crossing by braces 11 and below the point of crossing by braces 12. These end frames are connected intermediate their ends by longitudinal braces 13. Between the braces 11 extends a crank shaft 14 provided with a substantially central crank 15 and a laterally disposed crank 16. Between the braces 12 extends a shaft 17 whereon is mounted one end of a treadle 18. Connecting the treadle 18 and the crank 16 is a pitman 19 and upon the crank shaft 14 is mounted a fly wheel 20. By means of this construction the crank shaft 14 may be revolved by

alternately depressing the treadle 18 and allowing it to rise in the manner usual to such devices. On the upper end of the frame members 10 is carried a table 21 and on this table is mounted a gallows frame comprising vertically disposed bars 22 and a cross bar 23 provided with a perforation 24 preferably in the center thereof.

Mounted on the table 21 and extending transversely of the gallows frame are spaced guides 25 in the form of angle strips and slidably mounted on these angle strips is an ice container comprising a bottom portion 26 provided with a side 27 rigidly attached thereto. From each end of the side 27 extends a bolt 28 which passes through a slot 29 in an end member 30 of the container and these end members are connected by a side member 31 which is rigidly attached to the end members. The side and end members are thus free to move in such manner that the two sides may be brought nearer together or moved farther apart, being locked in position when properly adjusted by means of a thumb nut 32 held on each of the bolts 28. Both the bottom member 26 of the container and the table 21 are provided with slots extending therethrough, the slot in the table being relatively short and indicated by the numeral 33 while the slot in the bottom member 26 extends substantially nearly the entire length of that member as indicated at 34.

Through the opening 24 in the top member of the gallows frame extends a bar 35 provided with a fork 36 at the lower end thereof wherethrough passes a pin 37. The bar 35 extends above the member 23 and is provided on its upper end with a collar 38 held thereon by any suitable means as by the nut 39. Between the collar 38 and the member 23 there is provided a compression spring 40 which normally holds the bar in its raised position. Pivoted on the pin 37 is the upper end of a saw 41 the lower end of which is attached to a strap 42 surrounding the journal of the crank 15.

Mounted on the braces 13 are a pair of guide rails 43 whereon is removably held a box 44 for the purpose of catching the chips from the block of ice which is being cut.

In the operation of the device a block of ice is placed on the board or bottom 26 and the sides 31 adjusted to the desired position to cut the necessary amount from the block. The shaft 14 is then rotated in the manner

described and this causes the saw 41 to move. The upper end of the saw reciprocates in a straight line while the lower end of the saw describes a circle. By reason of the
 5 slots 33 and 34 the saw is thus permitted not only reciprocatory movement but also movement in a lateral direction of the lower end while describing the circle. This causes the
 10 saw to strike the ice on its downward travel and moves it back away therefrom on its upward travel, this being of course true when the shaft is rotated in the proper direction. By reason of this peculiar arrangement the saw strikes the ice with a species
 15 of hacking action that is very efficient and causes the saw to rapidly work its way through the ice, the container being set forward by hand as fast as the saw cuts. As the cutting operation proceeds the chips fall
 20 downward into the box 44 so that there is no accumulation of chips and water on the floor to wet the feet of the operator.

There has thus been provided a simple and efficient device of the character described
 25 and for the purpose specified.

It is obvious that minor changes may be made in the form and construction of this invention without departing from the material principles thereof. It is not therefore
 30 desired to confine the invention to the exact form herein shown and described, but it is wished to include all such as properly come within the scope of the appended claims.

Having thus described the invention, what
 35 is claimed as new, is:—

1. In a device of the kind described, an ice-holder comprising a bottom provided with a slot extending longitudinally thereof,

a fixed side, a laterally movable side, ends fixed on said movable side, means on the
 40 fixed side and ends to hold the ends and movable side in adjusted position, an oscillating saw extending through said slot, and means to oscillate said saw.

2. In a device of the kind described, a
 45 frame, a table supported thereon provided with a slot therethrough, an ice-holder comprising a bottom provided with a slot extending longitudinally thereof, a fixed side, a laterally movable side, ends fixed on said
 50 movable side, means on the fixed side and ends to hold the ends and movable side in adjusted position, a saw mounted for oscillation through said slots, and means to oscillate said saw.

3. In a device of the kind described, a
 55 frame, a table supported thereon provided with a slot therethrough, guides on said table, an ice-holder comprising a bottom provided with a slot extending longitudinally
 60 thereof, a fixed side, a laterally movable side, ends fixed on said movable side, and means on the fixed side and ends to hold the ends and movable side in adjusted position, a saw passing through said slots, means
 65 for guiding one end of said saw in a rectilinear path, and other means for moving the other end of said saw in a substantially circular path.

In testimony whereof, I affix my signature, 70
 in presence of two witnesses.

KARL K. WITT.

Witnesses:

H. T. AMES,
 EDW. J. WALSH.