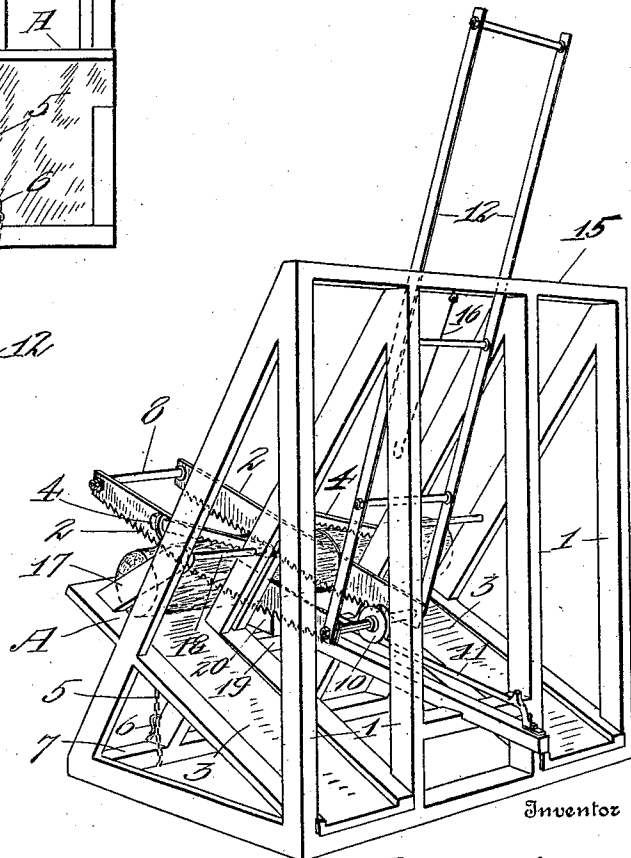
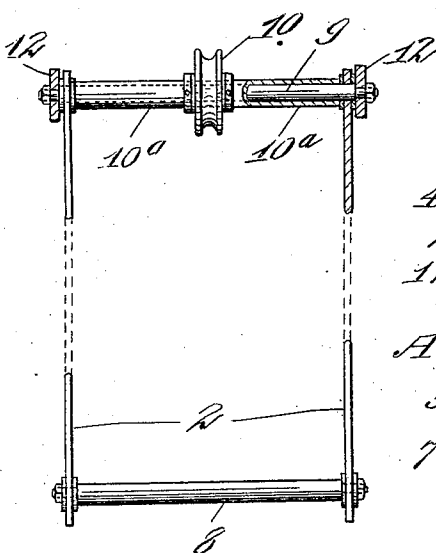
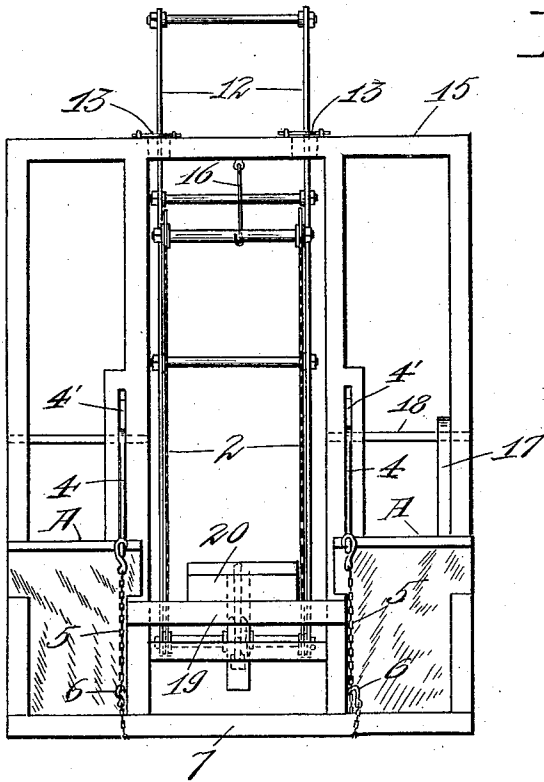


T. KIMURA.
WOOD SAWING MACHINE.
APPLICATION FILED NOV. 18, 1908.

938,151.

Patented Oct. 26, 1909.
2 SHEETS—SHEET 1.

Fig. 2



Witnesses *Fig. 4*
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Fig. 1
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938,151.

Fig. 5

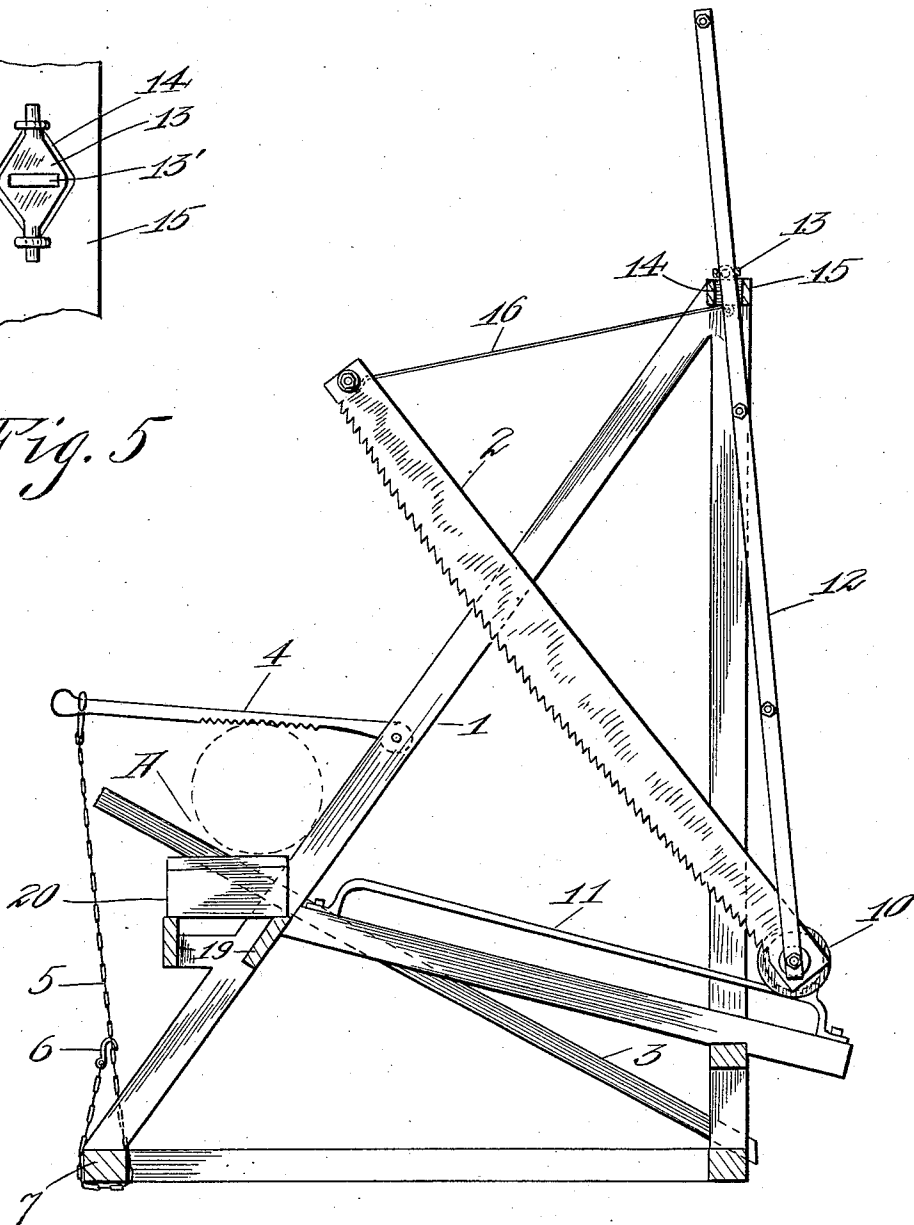


Fig. 3

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UNITED STATES PATENT OFFICE.

TANEKICH KIMURA, OF PORT BLAKELY, WASHINGTON.

WOOD-SAWING MACHINE.

938,151.

Specification of Letters Patent.

Patented Oct. 26, 1909.

Application filed November 18, 1908. Serial No. 463,296.

To all whom it may concern:

Be it known that I, TANEKICH KIMURA, a subject of the Emperor of Japan, and a resident of the city of Port Blakely, in the county of Kitsap and State of Washington, have invented certain new and useful Improvements in Wood-Sawing Machines, of which the following is a specification.

My invention relates to an apparatus of the above type and aims primarily to provide a simplified and improved construction.

Other objects will be set forth as the description progresses and those structural features, arrangements and combinations of parts, in which my invention resides, succinctly defined in my annexed claims.

Referring now to the accompanying drawings, wherein like characters of reference indicate like parts throughout the several views: Figure 1 is a view in perspective of my apparatus. Fig. 2 is an end elevation thereof. Fig. 3 is a longitudinal sectional view. Fig. 4 is a fragmentary plan view illustrating more particularly the manner in which the saws are connected, and Fig. 5 is a detail view of one of the pivoted guides for the saw steadier.

In carrying out my invention I provide a frame including uprights 1, each consisting of a pair of upwardly converging legs. As now considered, there are four uprights 1 which are spaced, as shown, whereby the gang of saws 2, there being two shown, can be supported approximately centrally of the frame for movement therethrough, while boards or the like can be arranged between the uprights on either side of the saws to provide inclined ways 3 down which the blocks cut by the saws can be slid and discharged from the machine. The upper end portions of these ways 3 project outwardly from the adjacent oppositely inclined legs of uprights 1 and form in conjunction therewith a buck or support, as A, for the log to be sawed, see Fig. 1.

Reference numeral 4 indicates toothed members for holding the log during the sawing operation, said members being swingingly supported in slots 4' of the forward legs of the intermediate uprights 1 and connected to flexible connections 5, in the form of chains, provided with hooks 6, which connections extend downwardly and are passed

around the base rail 7 when hooks 6 are engaged with such of the links of the connections, as will insure of the members 4 being firmly held against upward movement.

Saws 2 (see Fig. 4) are removably held in spaced relation by rigid end connections, the forward one, indicated at 8, forming a handle adapted to be grasped by the operator.

The inner or rear connection consists of rod 9, having thereon, between the saws 2, sections of tubing 10^a, between the inner end portions of which is journaled on said rod, a roller 10 adapted for engagement with a suitable track, as 11.

To steady the saws as they are reciprocated on track 11, I employ what I term a "steadier", this comprising spaced arms 12 which are suitably connected one with the other and pivotally secured on the end portions of rod 9.

Arms 12 extend upwardly through slots 13' of pivotally supported guides 13, mounted over openings 14, formed in the top rail 15 of the frame.

Reference numeral 16 indicates a hook member which can be engaged with the connection 8 for holding the saws in an elevated position, see Fig. 3.

In operation, a log is slid lengthwise into the buck or support, until it engages the stop 17, swingingly supported on a rod 18, which also supports the adjacent log holding member 4, whereby it can be elevated and swung out of the way when it is desired to vary the lengths of the blocks to be cut. Saws 2 are now released from hook member 16 and reciprocated, the forward end portion of the saws being supported by roller 10, which rides on track 11. During this operation the steadier slides through guides 13, and swings the same in the direction of movement of the saws. Guides 13 while free to be swung as just described are held against lateral movement thereby preventing rocking or swaying of the same.

Between the end portions of the buck I provide on the spaced rails 19 a removable support, as 20, which may be a block of wood or a number of sections arranged one on another, for supporting the intermediate section being sawed, whereby pinching of the saws will be prevented.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent of the United States, is:

1. A wood sawing machine comprising a
5 frame, a means for holding the wood to be
sawed, a track inclined downwardly from
said means, a saw supported for reciproca-
tion on said track, a top rail on said frame
10 extending over said track, a guide pivoted to
said top rail and formed with a slot, and a
rigid arm pivotally connected with said saw
and engaged in said guide for swinging
therewith and for sliding therethrough dur-
ing reciprocatory movement of said saw.
- 15 2. A wood sawing machine comprising a
frame, means for holding the wood to be
sawed, a track inclined downwardly from
said means, a saw supported for reciproca-
tion on said track, a horizontal top rail on
20 said frame extending over said track and
being formed with an opening, a rigid arm
pivotally connected with said saw and pro-
jecting through the opening in said top rail,
and a horizontal guide pivoted on said top

25 rail over the opening thereof and being
formed with a slot slidably receiving said
rigid arm.

3. A wood sawing machine comprising a
frame, means thereon for supporting the
wood to be cut, a track extending from said
30 means, a horizontally disposed rail arranged
laterally of said track and extending over
the same, said rail being formed with spaced
openings, guides pivoted on said top rail
and formed with slots in alinement with the
35 openings thereof, a saw supported for recip-
rocation on said track, and a steadier for
said saw comprising spaced arms pivotally
connected therewith and being supported by
said guides for sliding and swinging move-
40 ment in the openings of said top rail.

Signed at Seattle, Washington this 11th
day of November 1908.

TANEKICH KIMURA.

Witnesses:

S. D. WINGATE,
FRANK E. ADAMS.