

No. 846,965.

PATENTED MAR. 12, 1907.

J. TORS.
APPLIANCE FOR CROSSCUT SAWS.
APPLICATION FILED JUNE 23, 1906.

Fig. 1.

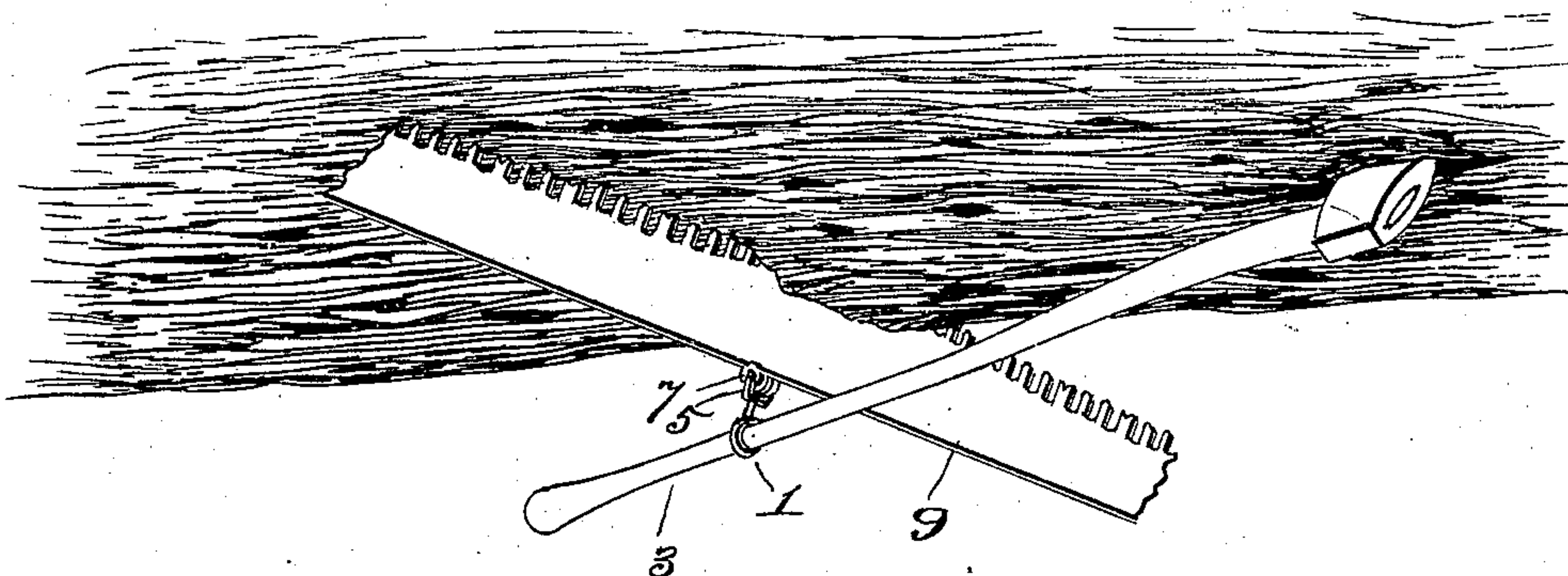


Fig. 2.

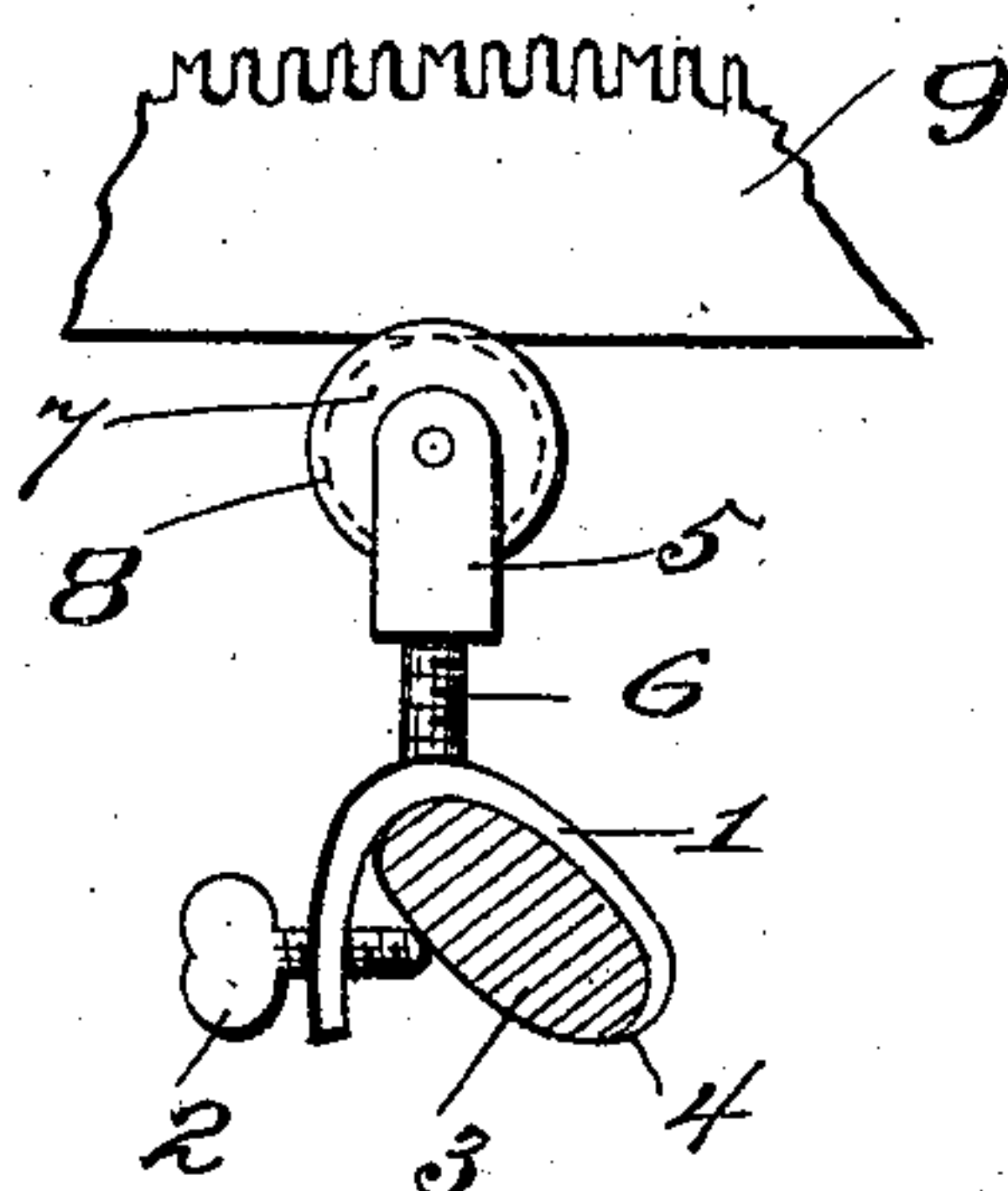
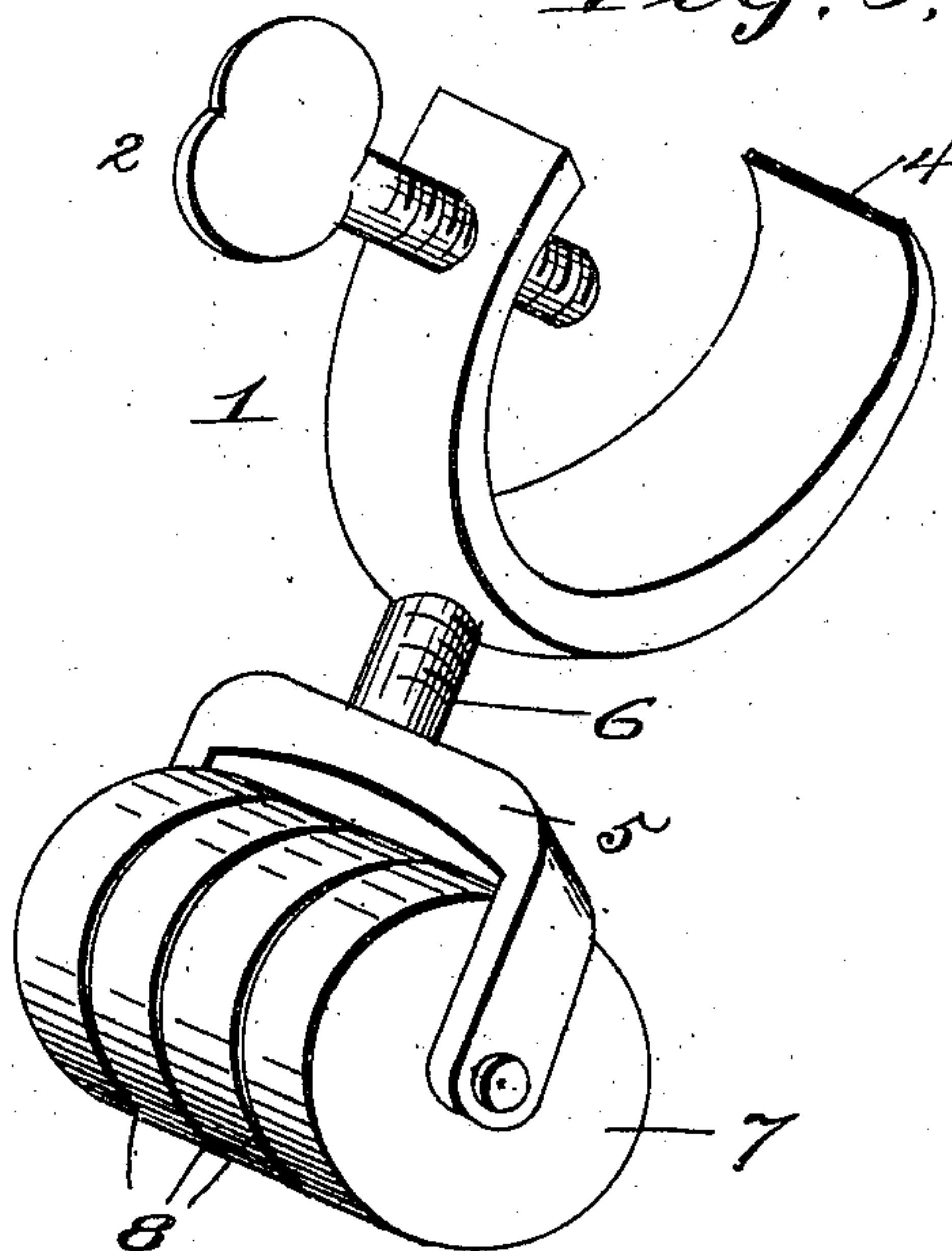


Fig. 3.



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UNITED STATES PATENT OFFICE.

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APPLIANCE FOR CROSSCUT-SAWS.

No. 846,965.

Specification of Letters Patent.

Patented March 12, 1907.

Application filed June 23, 1906. Serial No. 323,143.

To all whom it may concern:

Be it known that I, JOHN TORS, a citizen of the United States, residing at Matlock, in the county of Mason and State of Wash-
5 ington, have invented certain new and useful Improvements in Appliances for Crosscut-Saws, of which the following is a specification.

10 This invention relates to timber-sawing, and especially to a device used in connection with crosscut-saws in sawing logs or wood timber.

15 In felling trees or timber wood it often happens that they fall in a position necessitating their being sawed from their under side to sever them into lengths, which requires the saw to be worked teeth up, or in reverse to the usual position. Obviously
20 the saw must be continuously pressed upward during dragging thereof to maintain its cut.

To provide a device for supporting and guiding the saw in undercutting and for pressing or feeding the saw into the wood is
25 the prime object of this invention.

A further object of the invention is to provide a device of new and novel construction adapted to be applied to the back of a cross-
cut-saw to feed the latter.

30 A still further object of the invention is to provide a device for crosscut-saw undercutting adapted to be adjustably secured to the handle of an ordinary ax held by the tree or log to be sawed and adapted to feed the
35 saw under pressure applied to said handle.

40 With these and various other objects and advantages in view the invention consists of a saw-bearing roller adjustably secured to a clamp adapted to be carried by an ax-handle as a lever to force the feed of the saw.

45 In the accompanying drawings, forming part of this application to saw making an undercut, Figure 1 is a perspective view showing the application of the invention. Fig. 2 is an elevation showing the device applied to a saw. Fig. 3 is a perspective view of the device.

50 The same reference-numerals denote the same parts throughout the several views of the drawings.

55 The device which I term a "support" for undercut sawing is attached to an ax-handle after the ax has been stuck into a fallen tree and comprises a peculiar clamp, a bracket having a screw-stem, and a roller journaled in the bracket.

The clamp 1 is in one piece and has a short portion or side provided with a clamping-screw 2 and a long portion or side at an angle to the short portion. The long portion
60 terminates in a curved end, which has a knife-edge 4, with an opening between the said clamp portions for the passage of the ax-handle 3. The ax-handle is clamped against the said long portion and under its curved end by
65 the clamping-screw 2, so that the clamp is held to the handle in an inclined position relative to the clamping-screw. This position of the clamp and handle is necessary,
70 owing to the position of the ax and handle when the ax is held by a fallen tree or log.

The bracket 5 is U-shaped and has a stem 6 projecting therefrom and screwing into the clamp at the juncture of the long and short
75 portions of the clamp, whereby the bracket may be turned to various positions relative to the handle and a saw, and the distance between the bracket and the clamp may be
80 lengthened or shortened without moving the ax or its handle or refixing the ax in the tree. A roller 7 is journaled in the bracket and has
a series of grooves 8 to fit the back edge of a crosscut-saw 9 during the dragging of the
latter for sawing. It is obvious that the
85 roller is made to follow the saw by depressing the handle of the ax with the latter as a pivot and that the shape of the clamp permits of its
being secured to an ax-handle in such position as to have the roller follow the saw.

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

1. In an undercutter, the combination, with a bracket, and a roller journaled therein, of a clamp having a screw-stem connection
95 with the bracket whereby the distance between the clamp and the bracket may be varied, and a clamping-screw carried by and extending through one end of the clamp.

2. In an undercutter, the combination, 100 with a roller having annular grooves, and a bracket in which the roller is journaled, of a one-piece clamp having an opening between its sides for the insertion of an ax-handle against one of said sides, a screw connection
105 between the clamp and the bracket, and a clamping-screw carried by and extending through the other of said sides to engage the handle.

3. In an undercutter, the combination, 110 with a bracket having a screw-stem, and a roller journaled in a bracket, of an ax-handle

clamp carried by the screw-stem and having ends of unequal length from the stem, and a clamping-screw carried by and projecting from one of said ends into the clamp.

- 5 4. In an undercutter, the combination, with a roller, and a bracket in which the roller is journaled and having a screw-stem, of a clamp carried by the stem and having an inclined side terminating in a curved end,

and a clamping-screw carried by and working through the other side of the clamp.

In witness whereof I hereunto set my hand in the presence of two witnesses.

JOHN TORS.

Witnesses:

CHAS. PETERSON,
W. E. BALDWIN.