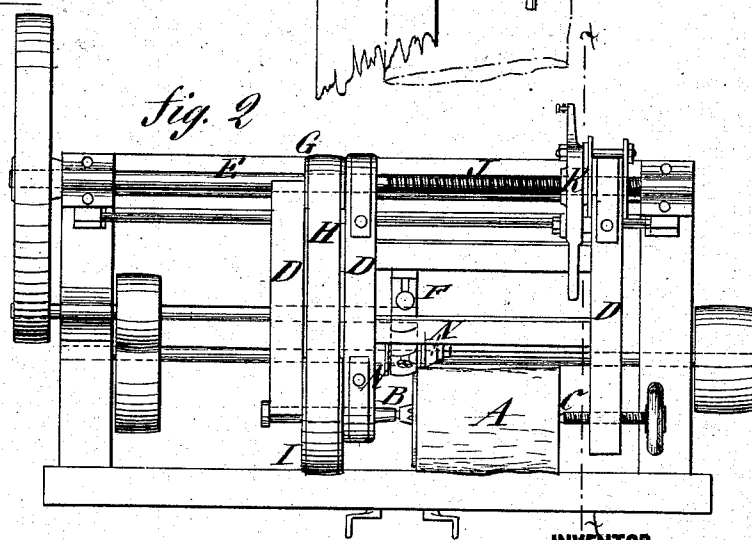
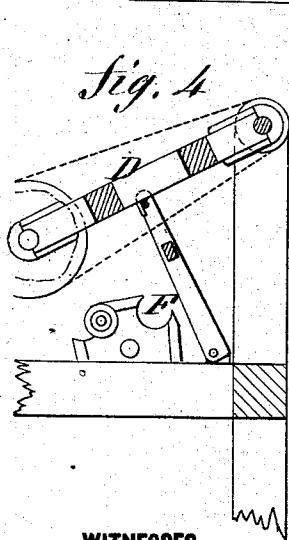
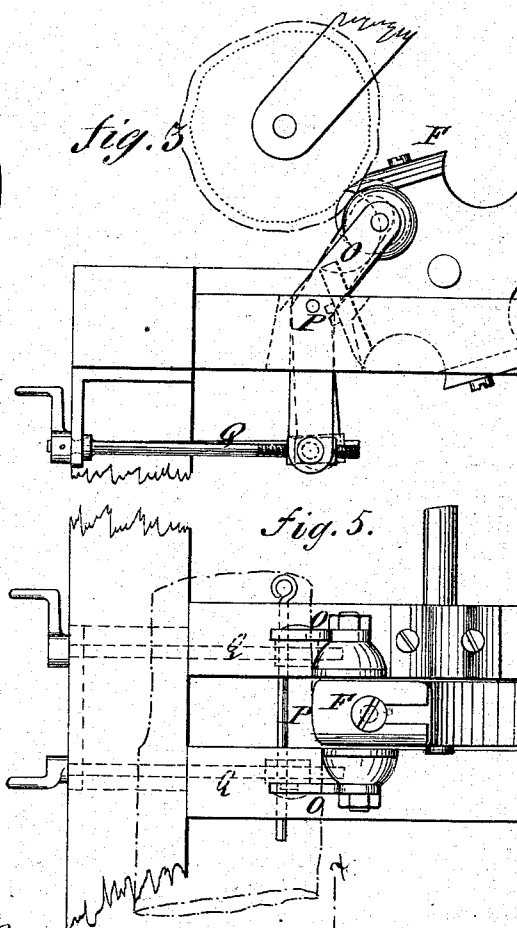
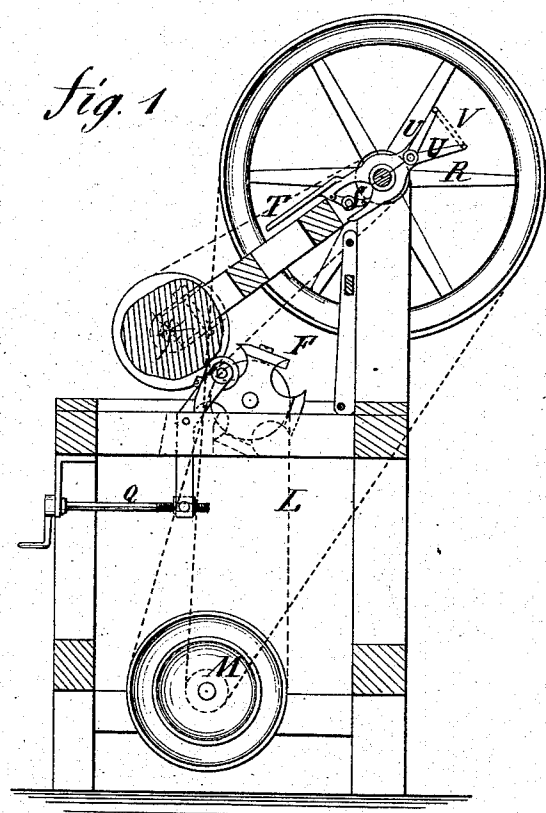


O. W. CLARK.
Machines for Barking Wood.

No. 158,247.

Patented Dec. 29, 1874.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ORSON W. CLARK, OF APPLETON, WISCONSIN.

IMPROVEMENT IN MACHINES FOR BARKING WOOD.

Specification forming part of Letters Patent No. **158,247**, dated December 29, 1874; application filed August 1, 1874.

To all whom it may concern:

Be it known that I, ORSON W. CLARK, of Appleton, in the county of Outagamie and State of Wisconsin, have invented an Improvement in Machines for Barking Wood, of which the following is a specification:

The improvement relates to the construction and arrangement of parts, as hereinafter described in a general way, and specifically indicated in the claims.

Figure 1 is a transverse sectional elevation of my improved machine, taken on the line *x* of Fig. 2. Fig. 2 is a plan view. Fig. 3 is a detail of the cutter, pattern-guides, and one of the centers for holding the wood together, with the latter in elevation. Fig. 4 is a plan of Fig. 3, and Fig. 5 is a detail on the line *x* of Fig. 2.

Similar letters of reference indicate corresponding parts.

A represents the piece of wood from which the bark is to be removed. It is mounted in the centers B C, which are supported in the frame D. This frame swings from the feed-shaft E, which slides the frame along by its screw J and nut K, moving the wood along the barking-cutter F at the same time that it revolves the wood slowly by means of the pulley G and band H, and the pulley I on the live center.

The cutter, which may consist of any approved kind, is revolved rapidly, by a belt, L, from a pulley on the driving-shaft M, and it has a roller-guide, N, on each side of it for gaging the wood to it, the one on the side from which the wood approaches the cutter being a little lower, or, in other words, a little nearer to the axis of the cutter, than the one on the other side, which coincides with the periphery of the cutter, the former being to gage the wood for the depth it is required it shall be cut, while the latter is merely to assist the former by acting on the dressed portion of the wood after it passes from the former, and to hold it altogether after the end escapes from the former. These gage-rollers are each mounted in the end of a rocking support, O,

pivoted at P, and provided with an adjusting-screw, Q, by which they can be shifted toward and from the axis of the cutter, to vary them as may be desired for different kinds of wood. The nut K, for feeding the frame along, is made in two parts, which are pivoted, at R, together, and connected on the opposite side of the screw by a rocking link, S, so that when one of the parts of the nut is pressed onto the screw by its handle T, the other part will also be closed on the screw by the same means, through the medium of the said rocking link. The said parts are also prolonged beyond the pivot at U, and connected by a spring, V, so that when the handle is let go the spring throws open both jaws and disconnects the frame from the screw, so that it can be instantly shoved back to the place of beginning, after each piece is barked, for receiving another piece.

The frame D vibrates on the screw as the wood rises and falls by its inequalities on the gage-rollers, but the centers for carrying the wood might be in fixed bearings, and the cutter and its gage-rollers might be in a movable frame to rise and fall to the inequalities of the wood, and they might also be moved along the wood, instead of moving the wood along to them.

A little frame is employed for holding the centers B C up when pulling in and removing the wood.

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

1. The clamping-nut K formed in two parts, hinged at R, and provided with extensions I and U, the spring V, and rocking link S, all constructed and arranged as shown and described.

2. The roller-guides mounted in a rocking support, O, having an adjusting-screw, substantially as specified.

ORSON W. CLARK.

Witnesses:

S. P. MING,
S. ESSELBURN.