(No Model.)

W. WARMOTH.

FIRE WOOD DRAG SAW.

No. 246,253. Patented Aug. 23, 1881.

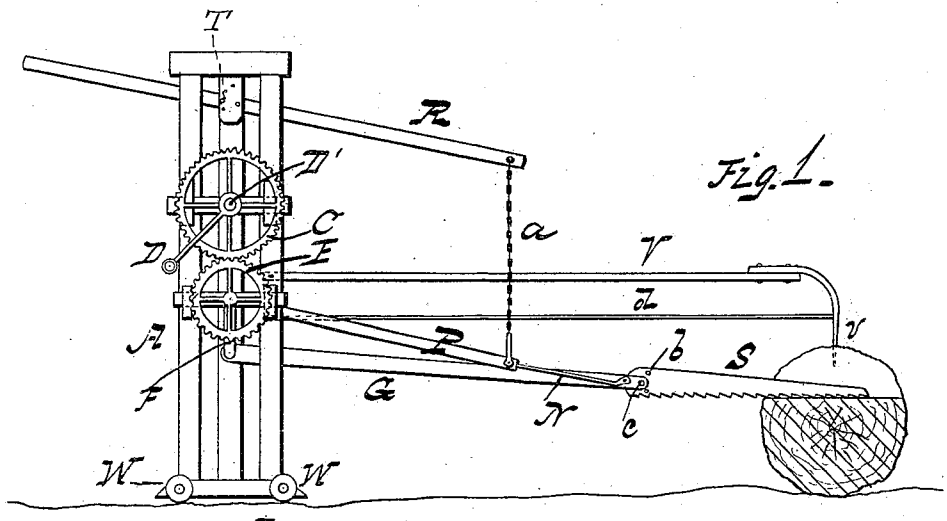

Fig. 1.

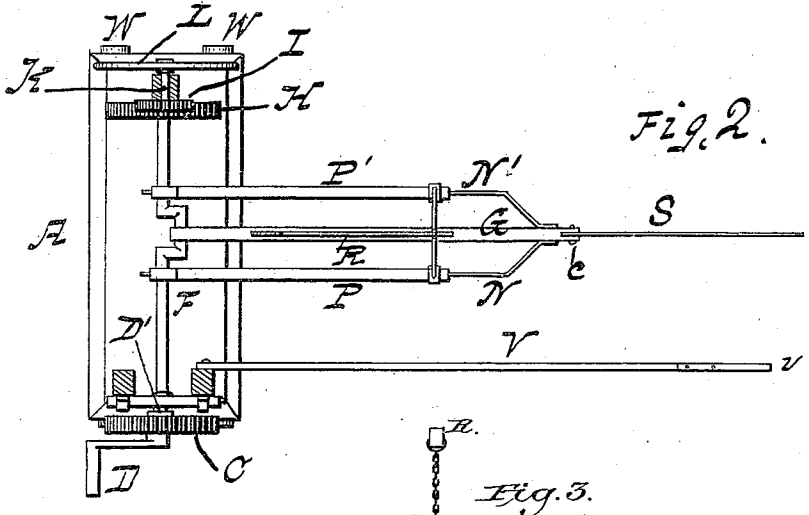

Fig. 2.

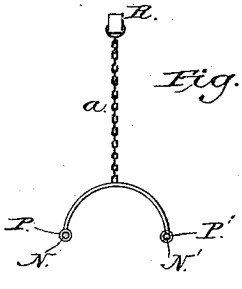

Fig. 3.

WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM WARMOTH, OF LAKE VALLEY, INDIANA.

FIRE-WOOD DRAG-SAW.

SPECIFICATION forming part of Letters Patent No. 246,253, dated August 23, 1881.

Application filed May 26, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM WARMOTH, a citizen of the United States, resident of Lake Valley, in the county of Morgan and State of Indiana, have invented a new and valuable Improvement in Crosscut-Saws; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a side elevation of the device, and Fig. 2 is a plan view, partly in section. Fig. 3 is a detail view of the chain yoke and lever.

This invention has relation to sawing-machines; and it consists in the construction and novel arrangement of devices hereinafter shown and described, and specifically pointed out in the claim appended.

In the accompanying drawings, the letter A designates the frame of the machine, consisting of three uprights, the cap and sill, and the braces.

D represents the crank, connected to the shaft D′, which is pivoted in bearings on the uprights and carries the driving-gear C, which engages the cog-wheel E on one end of the transverse crank-shaft F, to which the pitman G, which extends to the saw, is connected. On the other end of the crank-shaft F is secured the toothed wheel H, which engages the cog-wheel I, which is secured to the shaft K. L indicates the fly, also secured to shaft K.

S represents the saw, and N N′ are rods working in guide-tubes P P′, said tubes being pivoted in rear to the driving-shaft F, and connected at their front ends by the chain-connection *a* to the lever R. This lever is pivoted to the cap of the frame, and serves to raise or lower the saw. The lever R is secured, after adjustment, by means of a ratchet device, T, or other fastening, so that the saw can be held in any desired position. The saw is provided with a series of holes or bearings, *b*, at its rear end, in front of the pivotal connection with the pitman, and a spring-bolt fastening is employed, as shown at *c*, serving to hold the point of the saw in position after it has been raised or lowered.

V indicates the beam, which is provided with a hook-spike, *v*, and serves to hold the log and machine in proper relative position. This beam is secured by its rear end to the frame, and is braced by the rods *d*.

The frame A is usually mounted on wheels W, and can then be easily transported from place to place.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

A sawing-machine having the guide-tubes P P′, pivoted to the driving-shaft, the saw-guiding rods N N′, working in said tubes, the adjusting-lever R, and the connection *a* between said lever and the guide-tubes, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM WARMOTH.

Witnesses:

TELEMICHUS N. BENNETT,

MORDECAI PRUITT.