

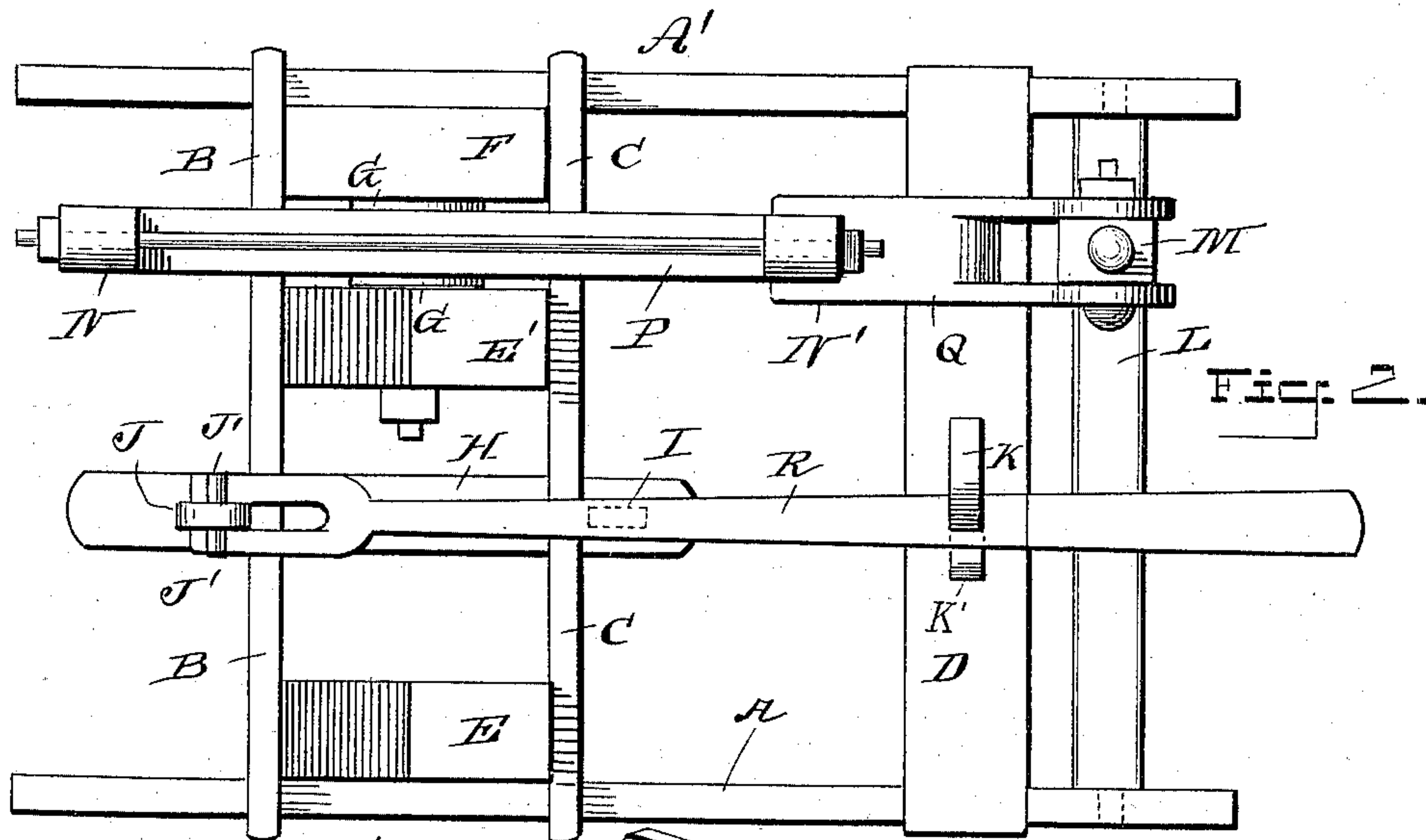
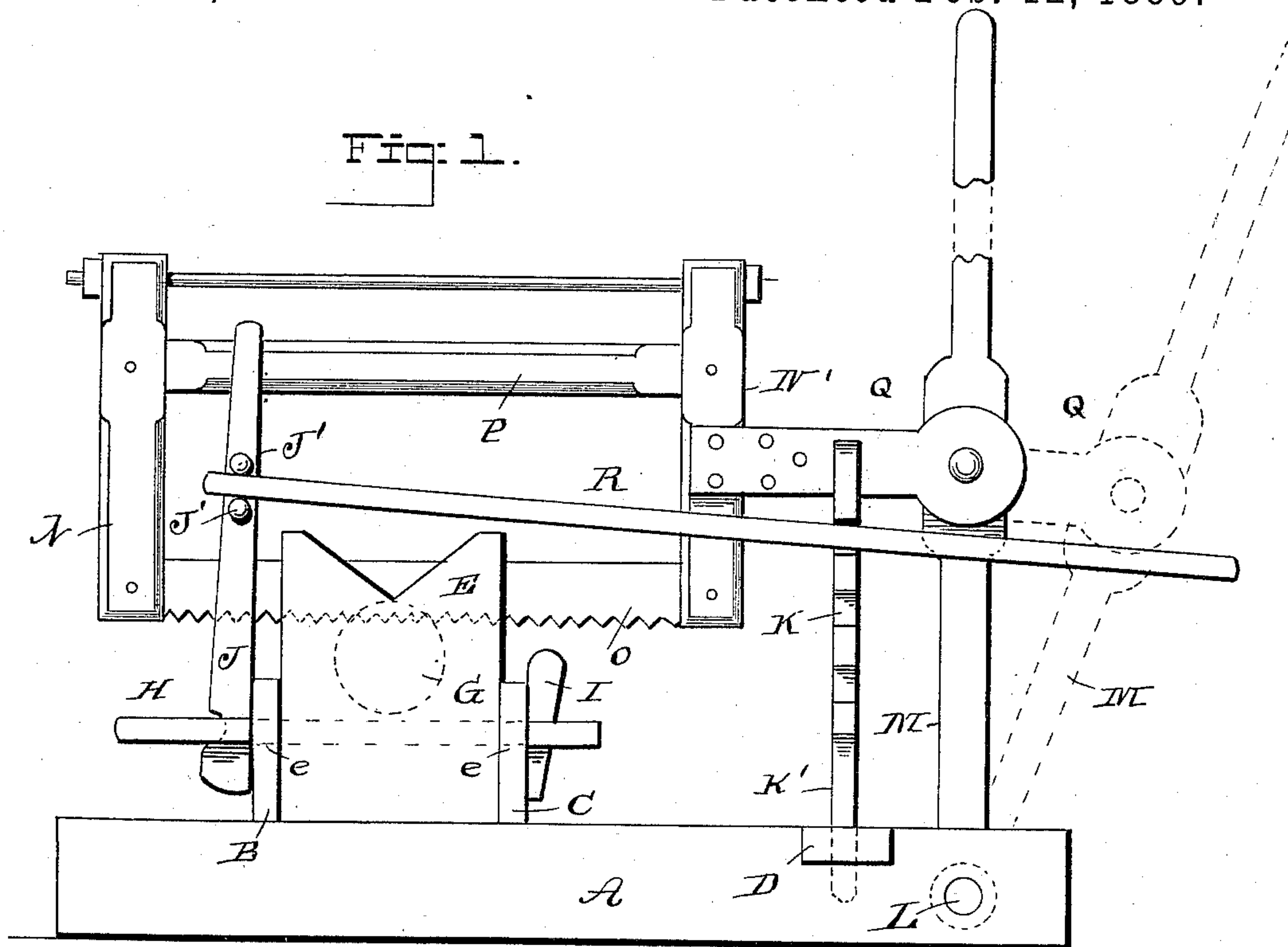
(No Model.)

T. J. BALDWIN.  
WOOD SAWING MACHINE.

No. 397,622.

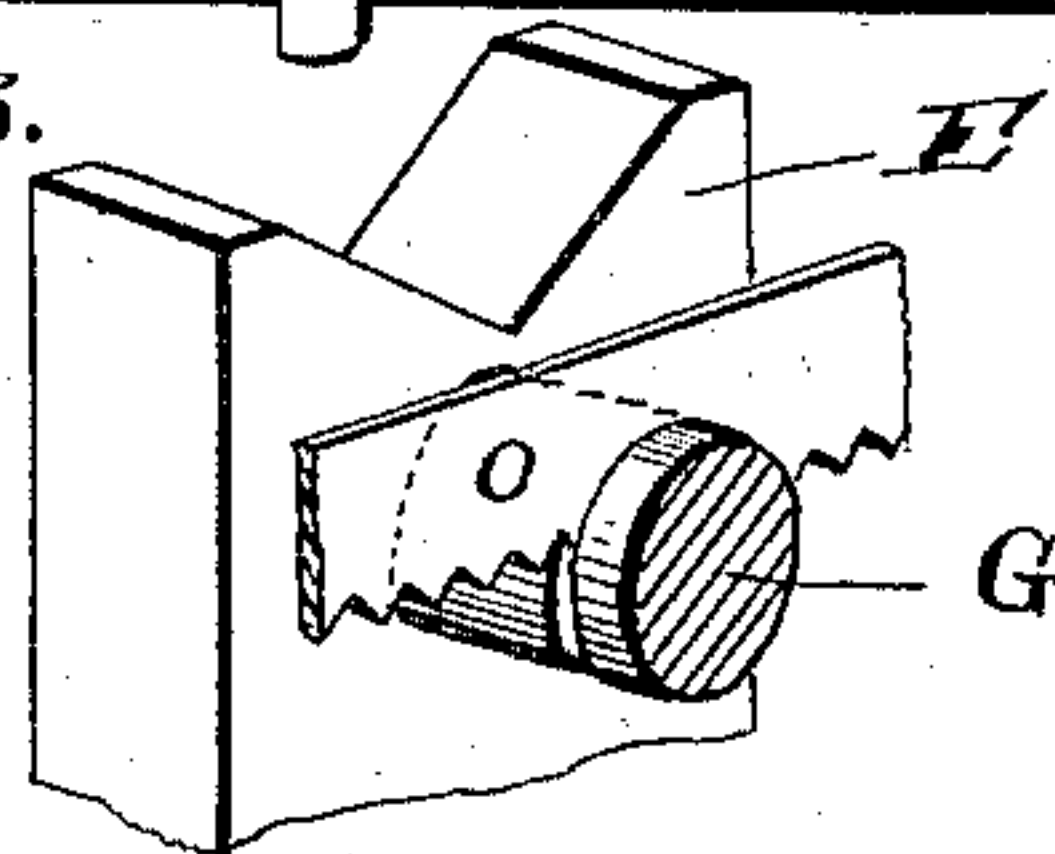
Patented Feb. 12, 1889.

Fig. 1.



WITNESSES: Fig. 3.

O. W. Mott  
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# UNITED STATES PATENT OFFICE.

THOMAS J. BALDWIN, OF ST. LOUIS, MISSOURI.

## WOOD-SAWING MACHINE.

SPECIFICATION forming part of Letters Patent No. 397,622, dated February 12, 1889.

Application filed September 24, 1888. Serial No. 286,157. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS J. BALDWIN, of St. Louis, in the State of Missouri, have invented a new and Improved Wood-Sawing Machine, of which the following is a full, clear, and exact description.

The object of my invention is to provide a saw with a lever and means for guiding the saw in a longitudinal plane, also means for oiling the saw, and means for securing the wood to be sawed; and it consists in the parts which will be hereinafter described, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the invention, and Fig. 2 is a top plan view. Fig. 3 is a detail view of the peripherally-grooved roller and part of the saw-blade supported thereby.

A A' are two horizontal parallel base-pieces connected by three cross-pieces, B C D.

E E' are two notched blocks to receive the wood to be sawed. The block E is fixed between the cross-pieces B C, and also to the inner side of the base-piece A, the block E' being also fixed between the said cross-pieces, nearly midway thereof. A block, F, is fixed to the inner side of the base A', and also fixed to the cross-pieces B C aforesaid. A grooved roller, G, is journaled in the sides of the blocks E' F. Each cross-piece B C is provided with a rectangular opening, *e e*, (shown in dotted lines, Fig. 1,) for the reception of a flat bar, H, said bar being provided near one end with an opening for the reception of a wedge, I, and also provided near its other end with an opening for the reception of a notched standard, J, the upper end of said standard being provided with a series of outwardly-extending pins J'. The cross-piece D is provided with an opening for the reception of a notched bar, K, and locking-wedge K'. A shaft, L, has its respective ends journaled in the sides of the base-pieces A A', and said shaft is provided with an upwardly-extending lever, M, fixed thereto. A saw, O, is secured in a frame, N N' P, one end of said frame N' being provided with an outwardly-extending arm, Q, the outer end of said arm being jointed to the lever M.

R represents a forked lever.

The operation is as follows: A stick of wood to be sawed is placed in the notches in the upper ends of the blocks E E'. The forked part of the lever R is then engaged with the pins J' on the standard J, the lever forced down tightly over the stick of wood, and said lever then engaged with and locked in one of the side notches in the bar K. Then by moving the lever M back and forth the saw is reciprocated therewith and the wood sawed. When the saw passes through a stick of wood, the saw-teeth engage a circumferential groove in the roller G, and said roller rotated so long as the saw is moved thereon, whereby the saw is supported and prevented from injuring any part of the device. The groove in the roller G may be filled with hard grease, so as to oil the blade of the saw when said saw and roller are in contact.

By the use of my invention a blind or one-armed person can saw wood with ease, no effort being required to keep the saw in line and in proper position.

The saw may be actuated by steam, horse, hand, or other power.

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

1. In a wood-sawing machine, the combination, with the frame and the reciprocating saw, of a support for the wood to be sawed, and a vertically-rotating roller to one side of the said support below the saw, with its axis at right angles thereto and having a peripheral groove to receive the saw after it passes through the piece of wood, substantially as set forth.

2. In a wood-sawing machine, a base, A A', connecting cross-pieces B C D, each provided with an opening, a bar, H, provided with two openings, said bar being engaged in the openings in the cross-pieces B C aforesaid, a notched standard, J, provided with pins, and a wedge, I, said standard and wedge being engaged in the respective openings in the bar H, a notched bar, K, and wedge K', engaged in the opening in the cross-bar D, in combination with a support for receiving a stick of wood, a saw, and a lever jointed thereto, substantially as shown and described.

THOMAS J. BALDWIN.

Witnesses:

FRANK R. MOSER,  
ROBERT KIRKWOOD.