M. ROSE.

SAWING-MACHINE.

No. 189,498. Patented April 10, 1877.

Fig. 1.

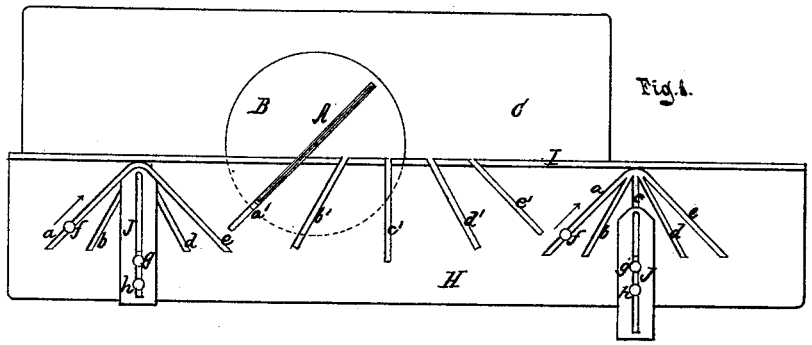


Fig. 2.

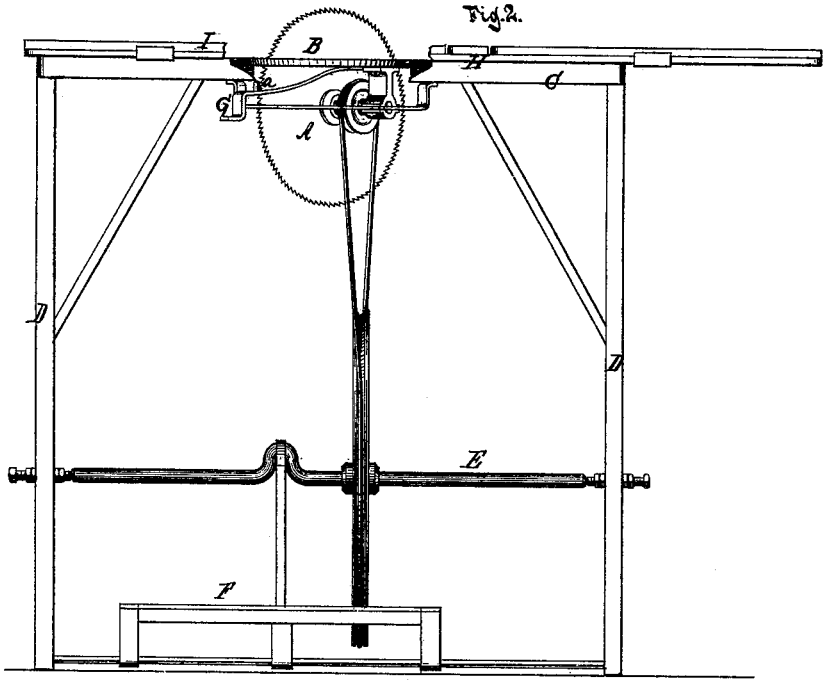
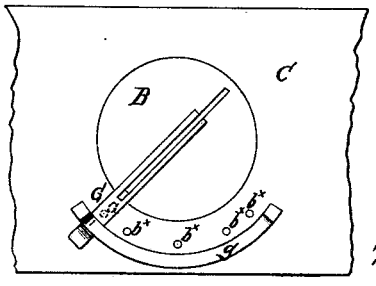


Fig. 3.



Witnesses.

Otto Hufeland

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UNITED STATES PATENT OFFICE.

MORRIS ROSE, OF NEW YORK, N. Y.

IMPROVEMENT IN SAWING-MACHINES.

Specification forming part of Letters Patent No. **189,498**, dated April 10, 1877; application filed February 7, 1877.

To all whom it may concern:

Be it known that I, MORRIS ROSE, of the city, county, and State of New York, have invented a new and useful Improvement in Sawing-Machines, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a plan view of a sawing-machine containing my improvement. Fig. 2 is a longitudinal vertical section thereof. Fig. 3 is an inverted plan view of the saw-carriage.

Similar letters indicate corresponding parts.

My improvement relates to that class of sawing-machines in which the saw is mounted on a revolving carriage, which is placed on a stationary table, so that the saw can be moved to different positions or angles with respect to the table, while the machine is adapted to be used for cutting either square or in various directions.

My improvement consists in combining, with the revolving saw-carriage and the stationary table, a movable bed for supporting and guiding the work, such movable bed being placed on the stationary table, and having a raised edge or sill for the work to rest against, while it is provided with a double series of slots, by which it is guided on pins projecting from the surface of the stationary table, and provided also with a series of slots to receive the saw, as will be hereinafter more fully set forth.

In the drawing, the letter A designates the saw of my machine, which, in the example shown, has a circular form, and B is the carriage, which is arranged in an opening formed in the stationary table, (marked C.) This table C is fastened to the legs D D, which form the bearings for a crank-shaft, E, connecting with a treadle, F, or other driving mechanism, and from which the saw is driven. To the saw-carriage B is fastened a radial arm, G, which is guided in a segmental bracket, *g*, secured to the under side of the table C. This arm G, moreover, is provided with a pin, while in the under side of the table C is formed a series of holes for the reception of said pin. The arm G, pin *a*, and holes constitute the device which I have, in the present example, used for locking the saw-carriage in position, this purpose being accomplished by inserting the pin in either of the said holes; but it is obvious that various other well-known devices may be substituted therefor.

The object of using the radial arm G is to obtain a handle for manipulating the saw-carriage.

The letter H designates the movable bed on which the work is placed and guided in my machine. This bed H is placed on the stationary table C, and one of its edges is turned up, as at I, so as to form a rest for the work placed on the bed. The bed, moreover, is provided with a double series of radial slots, *a b c d e*, one at or near each end, and extending in like directions, and with a series of radial slots, *a′ b′ c′ d′ e′*, corresponding to and situated about midway between the said double series of slots *a b c d e*.

From the upper surface of the table C project two pins, *f f*, with which one of each of the series of slots *a b c d e* is made to engage; and if these pins are made to engage with the slots *a*, as shown in Fig. 1, and the saw A is turned so as to coincide with the slot *a′*, the bed, when moved toward the saw, is accurately guided in the direction thereof. It will thus be seen that a log of wood, when laid on the bed H, can be cut off either square, by adjusting the parts to the slot *c*, or in oblique directions, by either of the slots *a b c d e*, with great facility, the carriage B being turned so that the saw coincides with the slot required.

Over each of the series of double slots *a b c d e* is arranged a slotted covering, J, which moves on pins *g′ h*, and the object of which is to prevent the guide-pins *f f* from running in any other than the desired slot.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with the revolving saw-carriage B and stationary table C, of the movable bed H, for supporting and guiding the work, said bed having the guide-slots *a b c d e* and *a′ b′ c′ d′ e′*, substantially as and for the purpose described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 5th day of February, 1877.

MORRIS ROSE. [L. S.]

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.