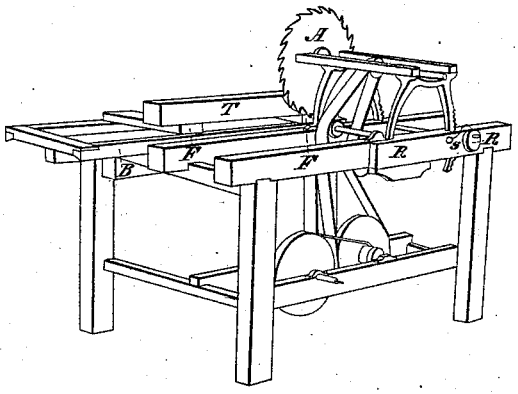
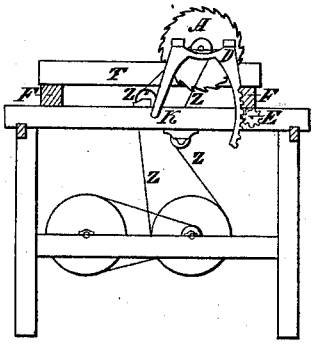
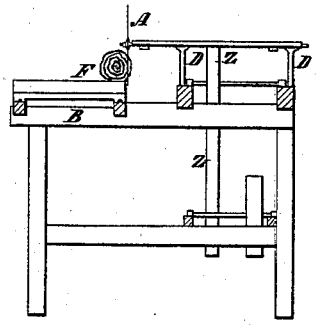
M. M. Bishop,

Circular Sawing Machine.

No. 54,673. Patented May 15, 1866.







Witnesses:
Charles F. Smith.
Albert Cummings.

Inventor:
Marshall M. Bishop

AM. PHOTO-LITHO. CO. N.Y. (OSBORNE'S PROCESS)

UNITED STATES PATENT OFFICE.

MARSHALL M. BISHOP, OF LE RAY, NEW YORK.

IMPROVEMENT IN SAW-MILLS.

Specification forming part of Letters Patent No. **54,673,** dated May 15, 1866.

To all whom it may concern:

Be it known that I, MARSHALL M. BISHOP, of Le Ray, in the county of Jefferson and State of New York, have invented a new and useful Improvement in Circular Saws; and I do hereby declare the following to be a full, clear, and exact description of the nature, construction and operation of the same, reference being had to the accompanying drawings, which are made part of this specification, and in which—

Figure 1 is a perspective view of a sawing-machine embodying my invention. Fig. 2 is a side elevation thereof, and Fig. 3 is an end elevation of the same.

Similar letters of reference indicate corresponding parts in the several figures.

The object of this invention is to provide for the ready adjustment of the saw, either to change the position of the saw in order to make it efficient when it becomes small by wear, or to adapt the frame for saws of various sizes, or to the timber to be operated upon.

The following detail description will enable others skilled in the art to which my invention appertains to fully understand and use the same.

A represents a circular saw, the axis of which is journaled in suitable bearings in a frame, D. Two of the legs or supports of the frame D at one side thereof are attached to the main frame by pivots K, while the two opposite legs of the frame D constitute racks *d d*, which engage with pinions E, journaled in the main frame, as shown in Fig. 2. By means of the pulley or crank R the pinions E may be turned so as to act upon the racks *d d* and elevate or depress the frame D to any desired position, as occasion may require. The pulley or crank R is retained in the desired position by means of the ratchet S.

On the carriage or setter-blocks B and F is placed the log or timber T to be sawed. The log or timber passes beneath the center of the saw A, and is fed so as to be cut with a drawing cut with the grain of the wood.

The pulleys *t* and V are so arranged as to keep the driving-belt Z tight and operative under the different positions of the frame D, as will be understood by reference to Fig. 2.

Having thus described my invention, the following is what I claim as new and desire to secure by Letters Patent:

Adjusting the saw by means of the pivoted frame D, racks *d d*, pinions E, and ratchet device S, arranged to operate as herein described.

MARSHALL M. BISHOP.

Witnesses:

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