

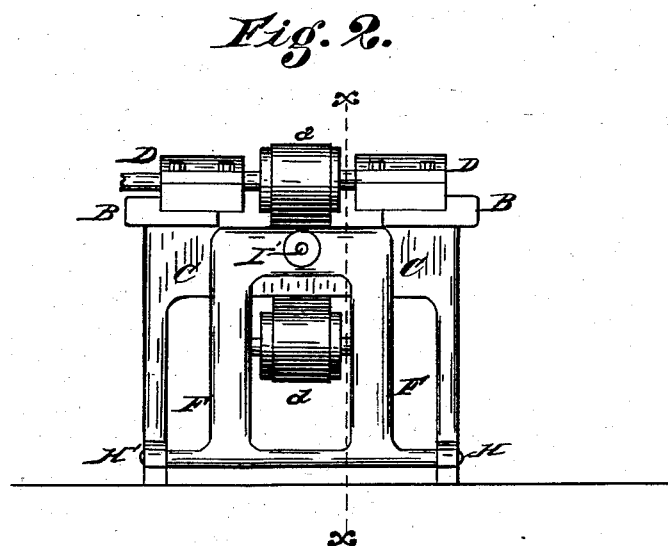
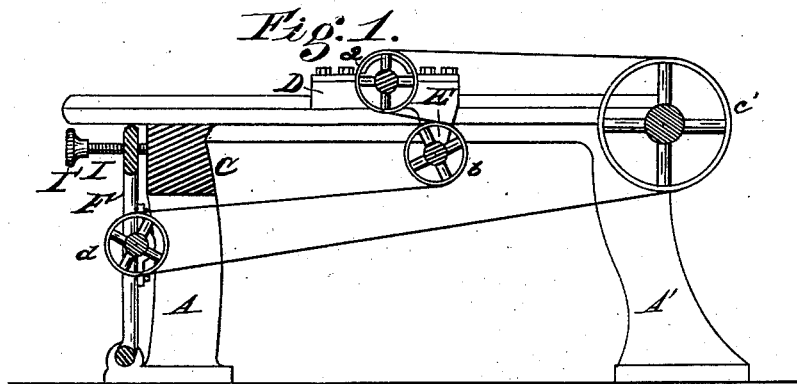
(No Model.)

H. J. CORDESMAN, Jr.

CIRCULAR SAWING MACHINE.

No. 267,157.

Patented Nov. 7, 1882.



*Attest,*

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# UNITED STATES PATENT OFFICE.

HENRY J. CORDESMAN, JR., OF CINCINNATI, OHIO.

## CIRCULAR SAWING MACHINE.

SPECIFICATION forming part of Letters Patent No. 267,157, dated November 7, 1882.

Application filed August 17, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY J. CORDESMAN, Jr., a citizen of the United States, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Circular Sawing Machines, of which the following is a specification.

My invention relates to an improvement in circular sawing machines, and to that class known as "railroad-saws."

The object of my invention is to provide an efficient belt-tightener, so as to readily adjust the strain of the belt.

Figure 1 is a vertical central section of my improvement on line *x x*, Fig. 2. Fig. 2 is a front end elevation of my improved machine.

A A represent the legs of the machine.

B B represent the two frame-pieces.

C represents the front cross frame-piece.

D represents sliding pillow-blocks, on which the saw-arbor is journaled.

E represents downwardly-projecting arms, rigidly attached to the pillow-blocks D, and to which the shaft of the secondary idler-pulley, *b*, is journaled. The frame-pieces B are gained to form guides, by which the pillow-blocks D are guided as they slide backward and forward.

F represents a slotted swinging frame, hinged or pivoted to the front end of the machine by hinges H H'.

I represents an adjusting-screw, tapped through the swinging frame F. The inner end of screw-rod I seats against the cross-piece C.

I' represents a hand-nut for turning screw-rod I out or in to adjust the frame F to or from the machine-frame.

*a* represents the driving-pulley, keyed on the saw-arbor.

*b* represents an idler-pulley.

*d* represents the tightener-pulley, keyed upon the shaft journaled to the swinging frame F.

*c'* represents the removing driving-pulley, keyed upon a shaft at the rear end of the machine.

Power is transmitted by a pulley keyed on

the opposite end of the shaft on which pulley *c'* is mounted. Any usual appliance for pillow-block and saw-arbor and saw, journaled upon a carriage adapted to move to or from the front end of the machine, may be employed.

By means of the swinging frame F, pulley *d*, and adjusting-screw I the strain of the belt may be regulated so that the desired tautness will be easily maintained.

Instead of the hinged frame F, a pulley, *d*, may be hung in any laterally-adjustable bearing which would allow it to move longitudinally toward or from the pulley *b*.

I do not wish to limit myself to the swinging adjustment, as other equivalent means can be substituted therefor.

I claim—

1. In a sawing-machine, the combination, with the boxes D, arranged to slide longitudinally on the frame of the machine and carrying the driving-pulley *a* and roller *b*, of the tightener-pulley *d*, arranged at one end of the machine and laterally adjustable with respect to such end, substantially as described.

2. In a sawing-machine, the upright frame F, having its lower end hinged to the base of the frame, the tightener-pulley *d*, carried by the hinged frame intermediate its upper and lower ends, and means for adjusting the upper end of the frame toward and from the end of the machine, substantially as described.

3. In a sawing-machine, the combination, with the boxes D, arranged to slide longitudinally on the frame of the machine, and carrying the driving-pulley *a* and idler-pulley *b*, of the vertically-arranged frame F, hinged at its lower end and carrying the idler-pulley *d* intermediate its upper and lower ends, and the screw-rod I, extending through the hinged frame to abut against the end of the machine, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

HENRY J. CORDESMAN, JR.

Witnesses:

JNO. E. JONES,

ADOLPH GLUCHOWSKY.