

T. M. NEWMAN.
RE-SAWING MACHINE.

No. 182,129.

Patented Sept. 12, 1876.

Fig. 1

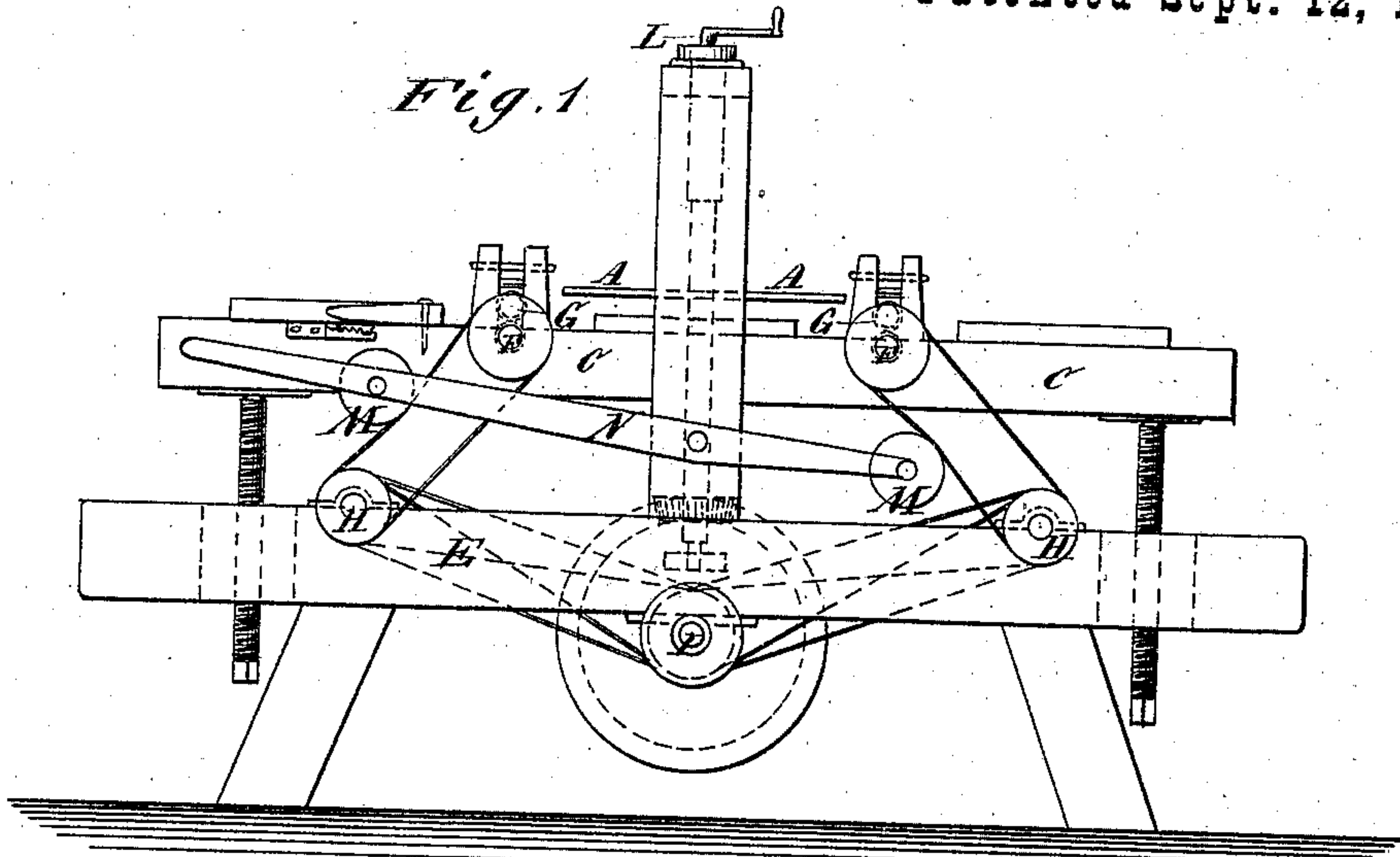


Fig. 2

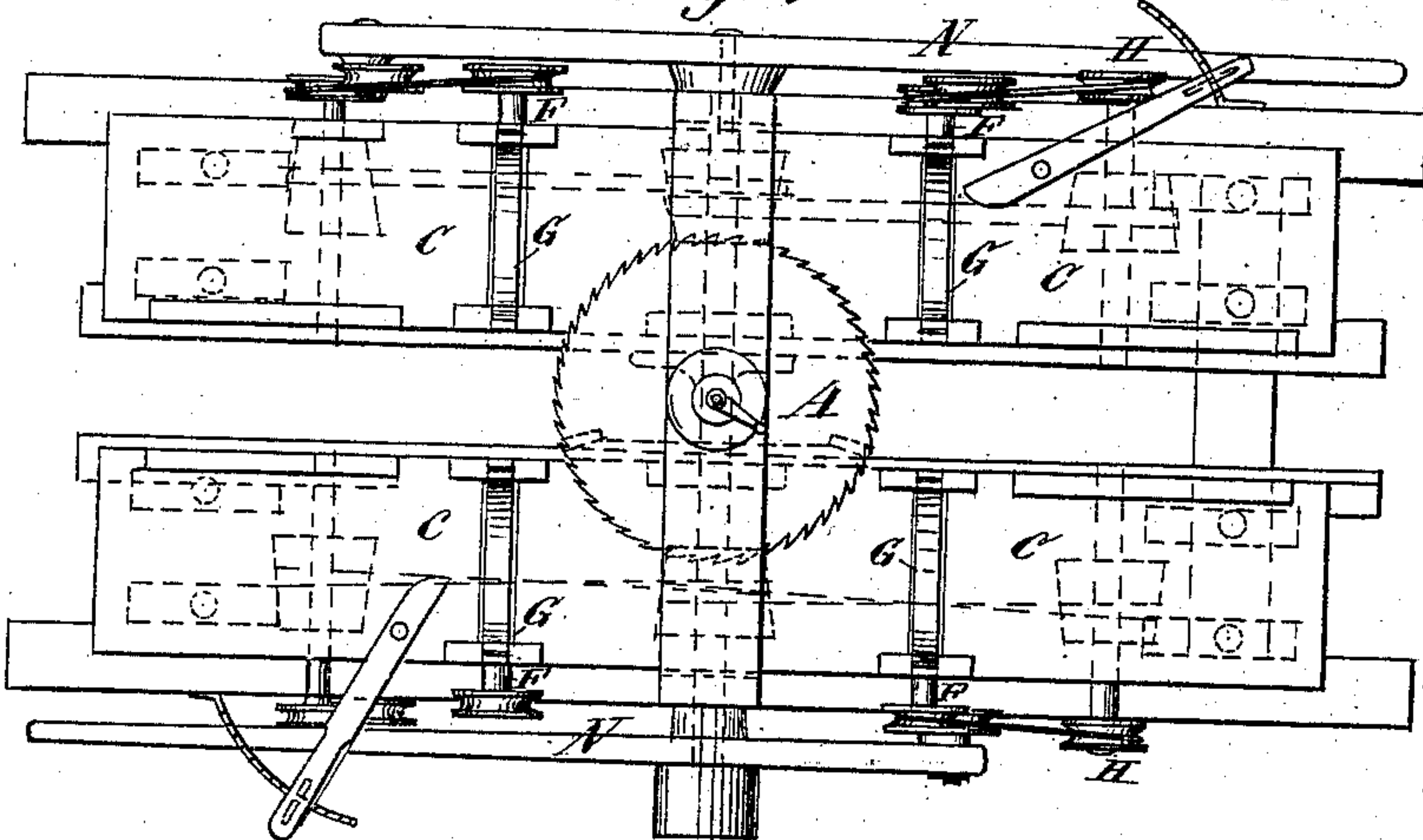
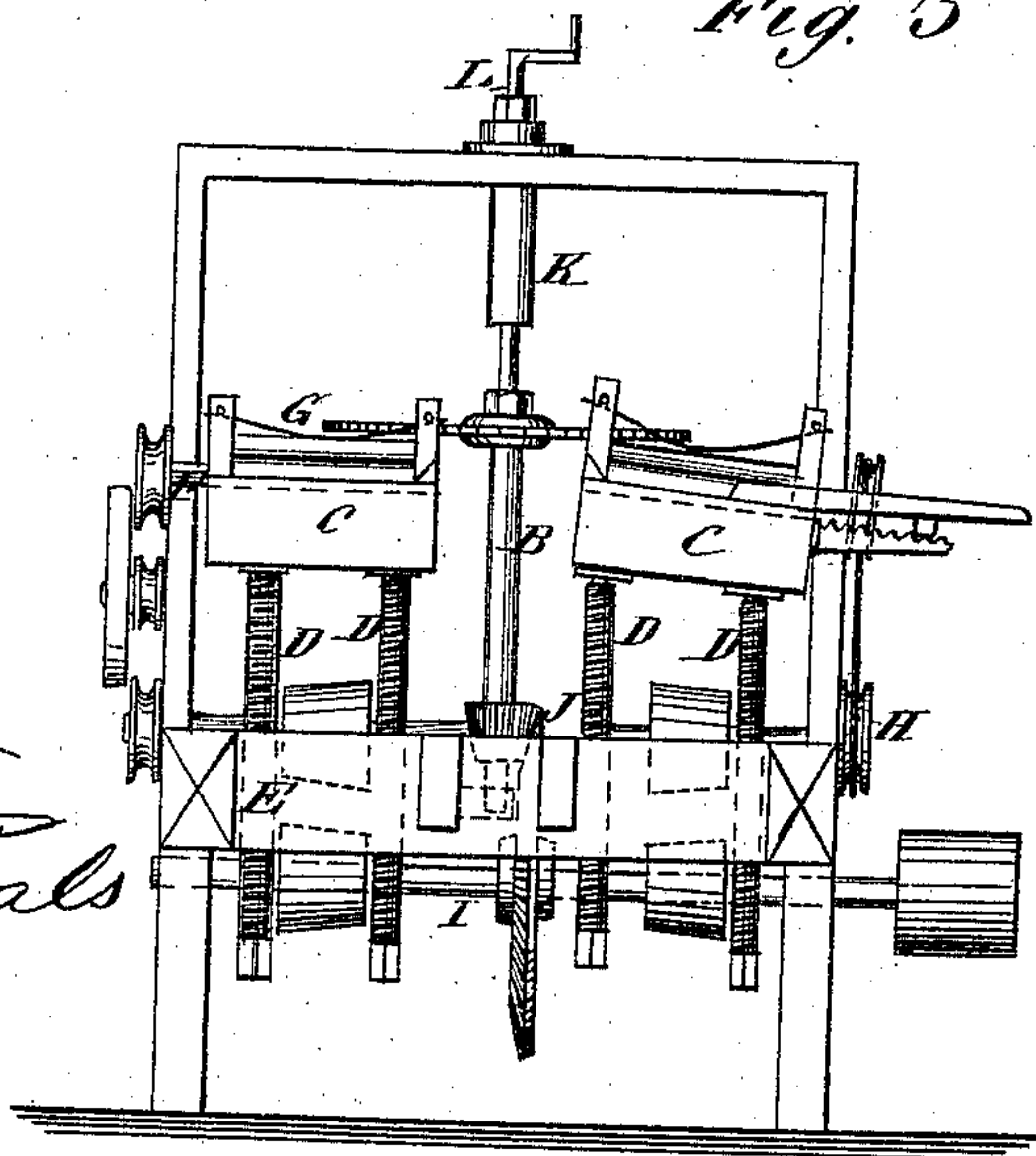


Fig. 3



WITNESSES:

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THOMPSON M. NEWMAN, OF GALLATIN, TENNESSEE.

IMPROVEMENT IN RESAWING-MACHINES.

Specification forming part of Letters Patent No. **182,129**, dated September 12, 1876; application filed April 10, 1876.

To all whom it may concern:

Be it known that I, THOMPSON M. NEWMAN, of Gallatin, in the county of Sumner and State of Tennessee, have invented an Improvement in Resawing-Machines, of which the following is a specification:

This improved machine consists essentially of a rotary saw on a vertical arbor between two tables for the stuff to be sawed, the said tables being supported on screws by which they can be shifted up and down to vary the thickness of the stuff; also, to incline them to the saw for sawing bevels, and the tables also have feed-rollers geared by counter-shafts and belts, with the main horizontal driving-shaft mounted in the lower part of the frame and turning the saw-arbor by bevel-gears.

Figure 1 is a side elevation of my improved machine. Fig. 2 is a plan view, and Fig. 3 is an end elevation.

Similar letters of reference indicate corresponding parts.

A is the rotary saw, which is arranged on a vertical arbor, B, between two saw-tables, C, which are mounted on the adjusting-screw standards D, which screw up and down in the bench E to vary the height of the tables and to incline them to the saw, as indicated by the right-hand table in Fig. 3. Each table is provided with feed-rollers F G and guides for presenting the stuff to the saw. The upper rollers have a spring to press them down, and they will, in practice, be mounted in bearings capable of shifting up and down. The lower feed-rollers are geared by belts with the counter-shafts H, which are driven by belts from the main driving-shaft I, and the saw-arbor is geared with said shaft by the bevel-wheels J.

In this example the upper end of the saw-

arbor is represented as having a bearing in the vertical stationary tube K, with a cranked center-pin, L, to screw down onto the point; but it may have bearings in boxes below the saw. As the saw-tables shift up and down, so as to vary the distance of the feed-rolls from the counter-shafts, belt-tighteners M are provided for the belts, the two for front and back rollers on one lever, N, which is pivoted between the tighteners, and one tightener being under and the other over the belt, so that one movement of the lever will tighten both belts.

I propose, in practice, to have a knife behind the saw over each table for separating the stuff as it is sawed, to prevent it from pinching on the saw. The belts working on the feed-rollers are round, and the pulleys are grooved in order to keep the belts in place better than they otherwise would be.

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

1. The combination of one or more vertically adjustable and tilting tables, C, with a rotary saw, A, on a vertical arbor, substantially as specified.

2. The driving-shaft I, counter-shafts H, belt tighteners M, lever N, and feed-rollers F, combined and arranged substantially as specified.

3. The tighteners M and lever N, combined and arranged with the belts of the front and back feed-rollers, substantially as specified.

THOMPSON M. NEWMAN.

Witnesses:

G. B. WRIGHT,

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