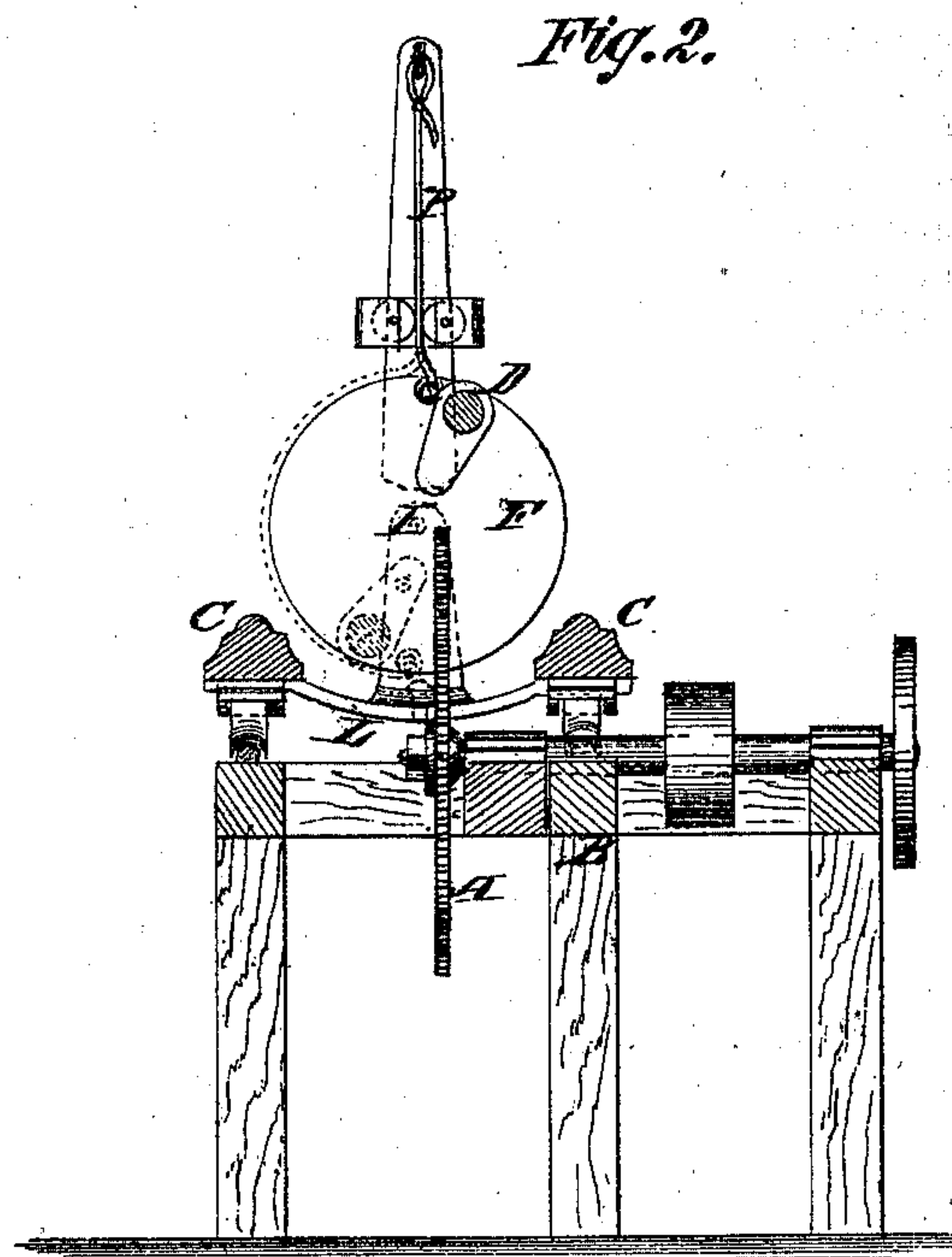
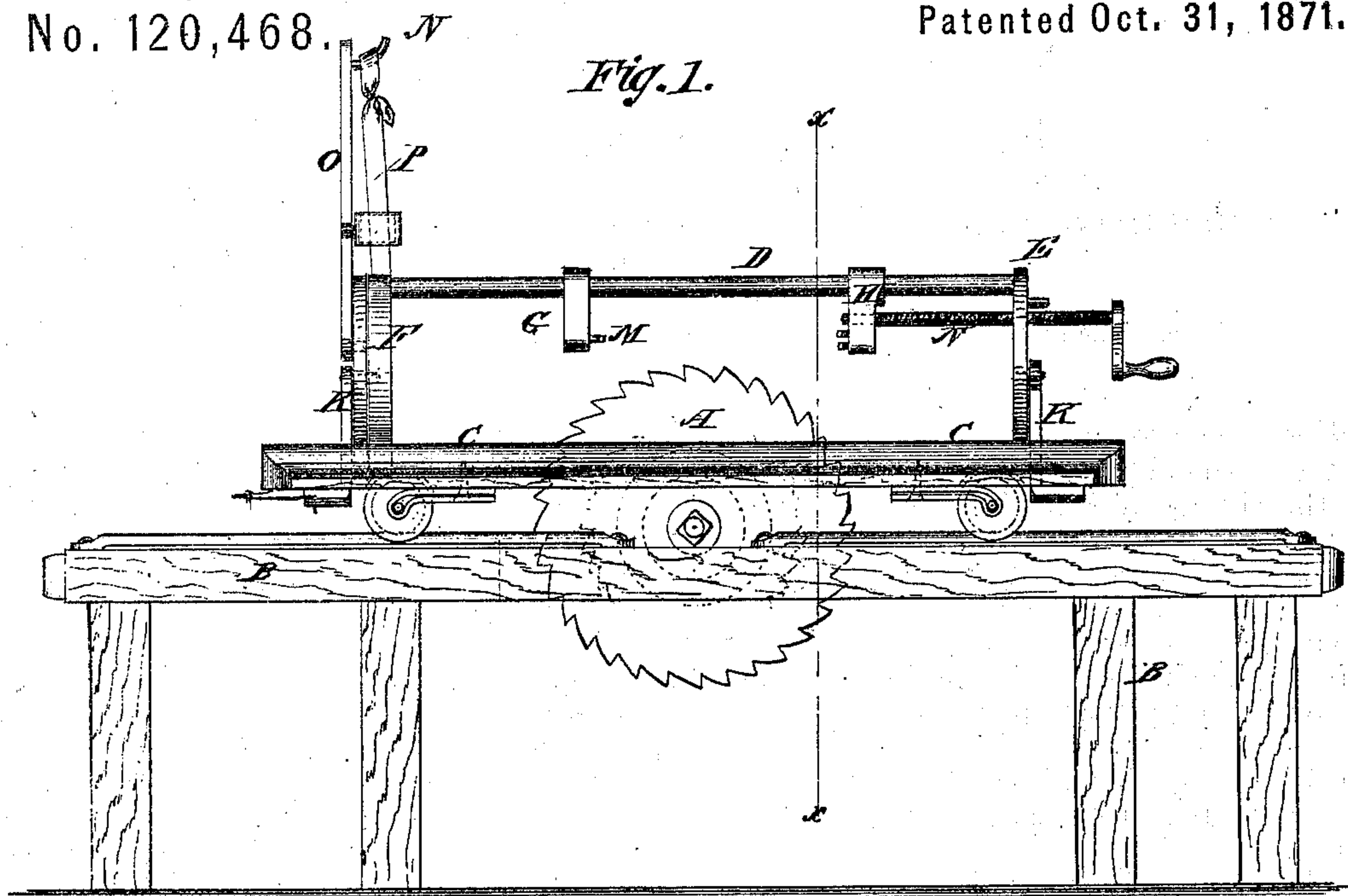


THOMAS J. TOLAN.
 Improvement in Machine for Sawing Spokes.
 No. 120,468. Patented Oct. 31, 1871.



Witnesses:
P. C. Luteriel,
Francis McAule.

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UNITED STATES PATENT OFFICE.

THOMAS J. TOLAN, OF DELPHOS, OHIO.

IMPROVEMENT IN MACHINES FOR SAWING SPOKES.

Specification forming part of Letters Patent No. 120,468, dated October 31, 1871.

To all whom it may concern:

Be it known that I, THOMAS J. TOLAN, of Delphos, in the county of Van Wert and State of Ohio, have invented an Improved Machine for Sawing Spokes, of which the following is a specification:

My invention consists in an improvement of spoke-sawing machines, as hereinafter fully described and subsequently pointed out in the claim.

Figure 1 is a side elevation of my improved machine. Fig. 2 is a cross-section on the line xx of Fig. 1.

Similar letters of reference indicate corresponding parts.

A is an ordinary rotary saw mounted on a bench, B, of any kind; and C is a carriage mounted on said frame with the saw between the side rails or timbers. The bolt-holder consists of the rod D, disks E E, fixed dog G, and sliding dog H, the said rod being connected to the disks near their peripheries so as to be suspended between them in such manner as to be rotated or oscillated around the axis I, coinciding with a line tangential to the top of the saw, the said disks being pivoted in said axis to standards K, rising up from the cross-bars L of the carriage. The dog G is made fast to the rod D near one end, and projects toward the axis I. It carries a point, M, for engaging one end of the bolt to hold it. The dog H is arranged on said rod D to hold the other end of the bolt, but slides back and forth toward dog G for blocks of different lengths, or for securing and releasing the bolts, being adjusted by a screw, N, screwed through disk E, and provided with a crank for turning it. The

disk F is connected to a pin or other piece, N, near the top of the bar O, by an elastic strap, P, attached to said disk, so as to hold the rod D over the axis I when in the normal condition; but when the said rod is turned down on either side of the saw, the spring will assist in holding the bolt against swinging down too far after one side becomes lighter than the other after cutting out some of the blanks. The screw N strikes against the standard K when the disks have been turned either way far enough to cut the last piece, to prevent the dogs from coming against the saw. This standard may be just wide enough where the screw comes against it to gauge the last piece to the right thickness when sawed.

The bolt being placed in the machine will first be sawed through when rod D is near the vertical plane of axis I; then the disks will be adjusted as far either way as necessary to gauge the thickness of one blank, and sawed again in like manner, and so on until it is turned as far in one direction as the standard K will allow it to be turned; then the rod is turned back to the top or a little beyond, and the other part sawed in the same manner until the screw strikes the standard on the other side in like manner, when the work will be completed.

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

The combination of the spring P with the disks F and rod D, substantially as specified.

THOMAS J. TOLAN.

Witnesses:

D. H. TOLAN,
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(31)