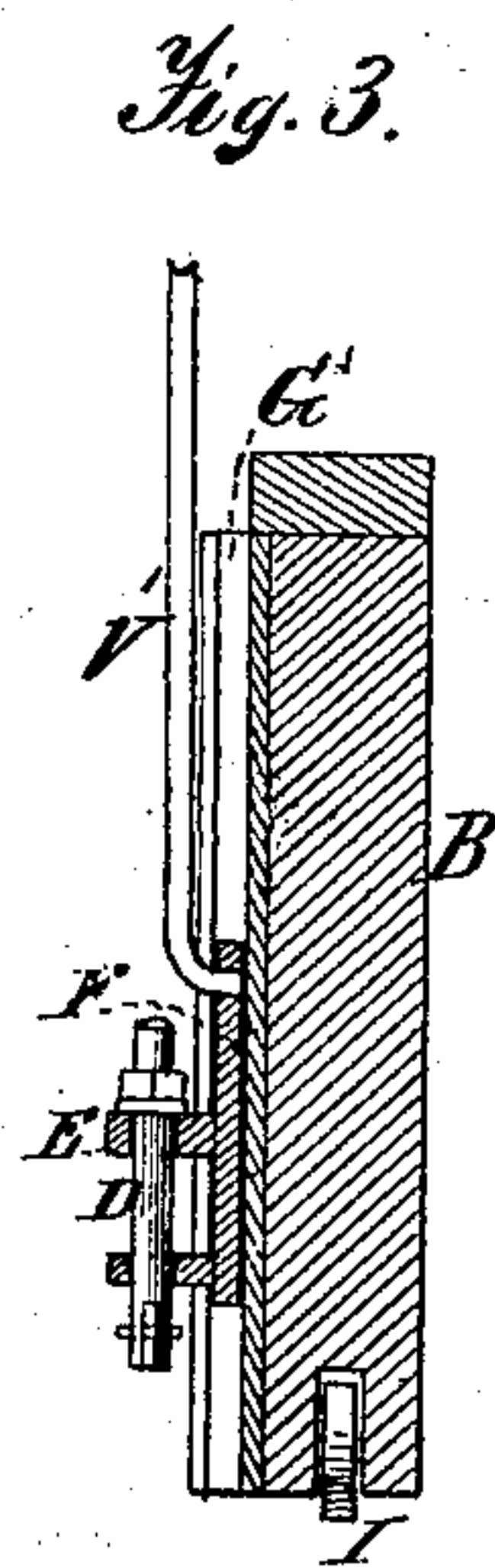
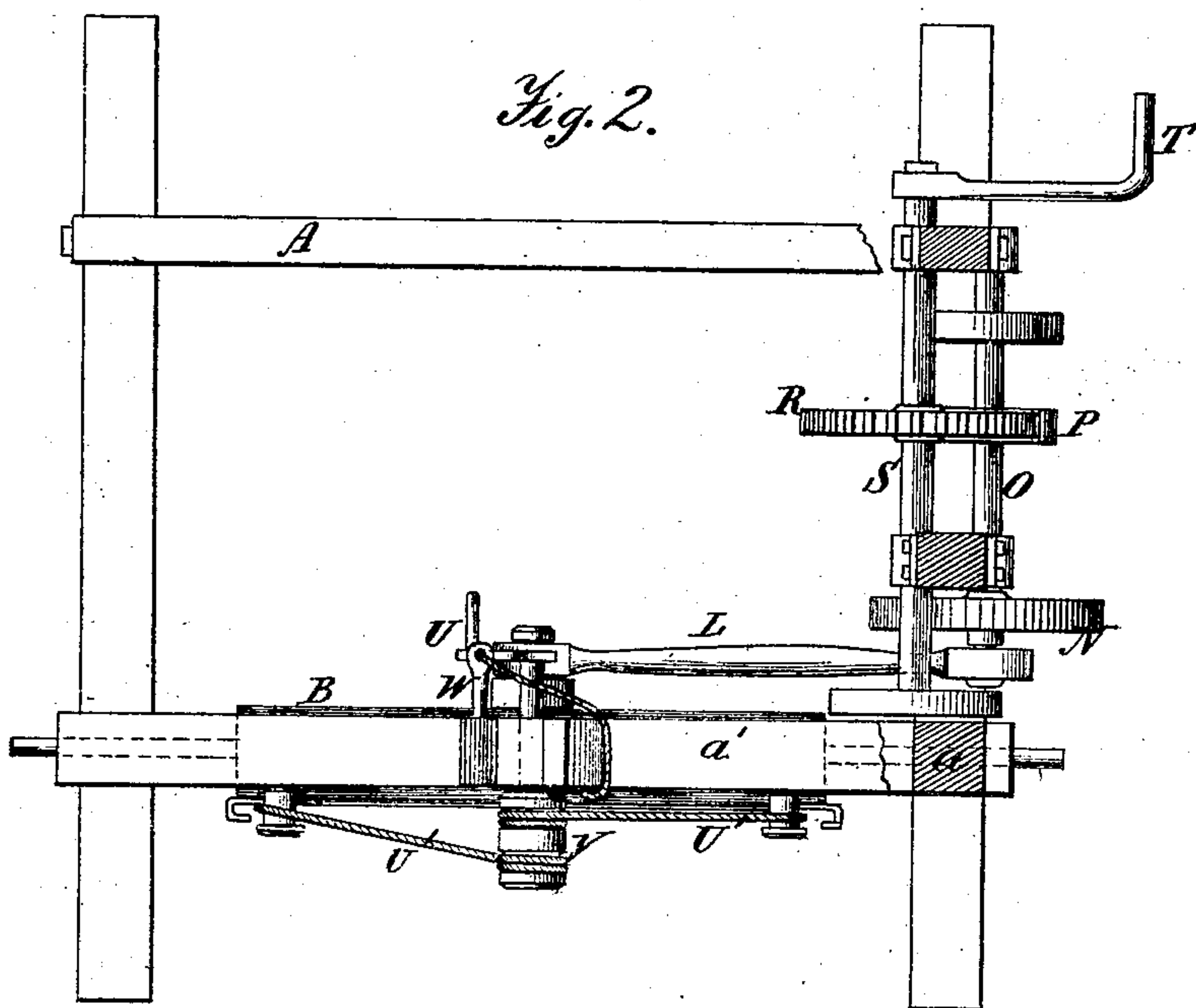
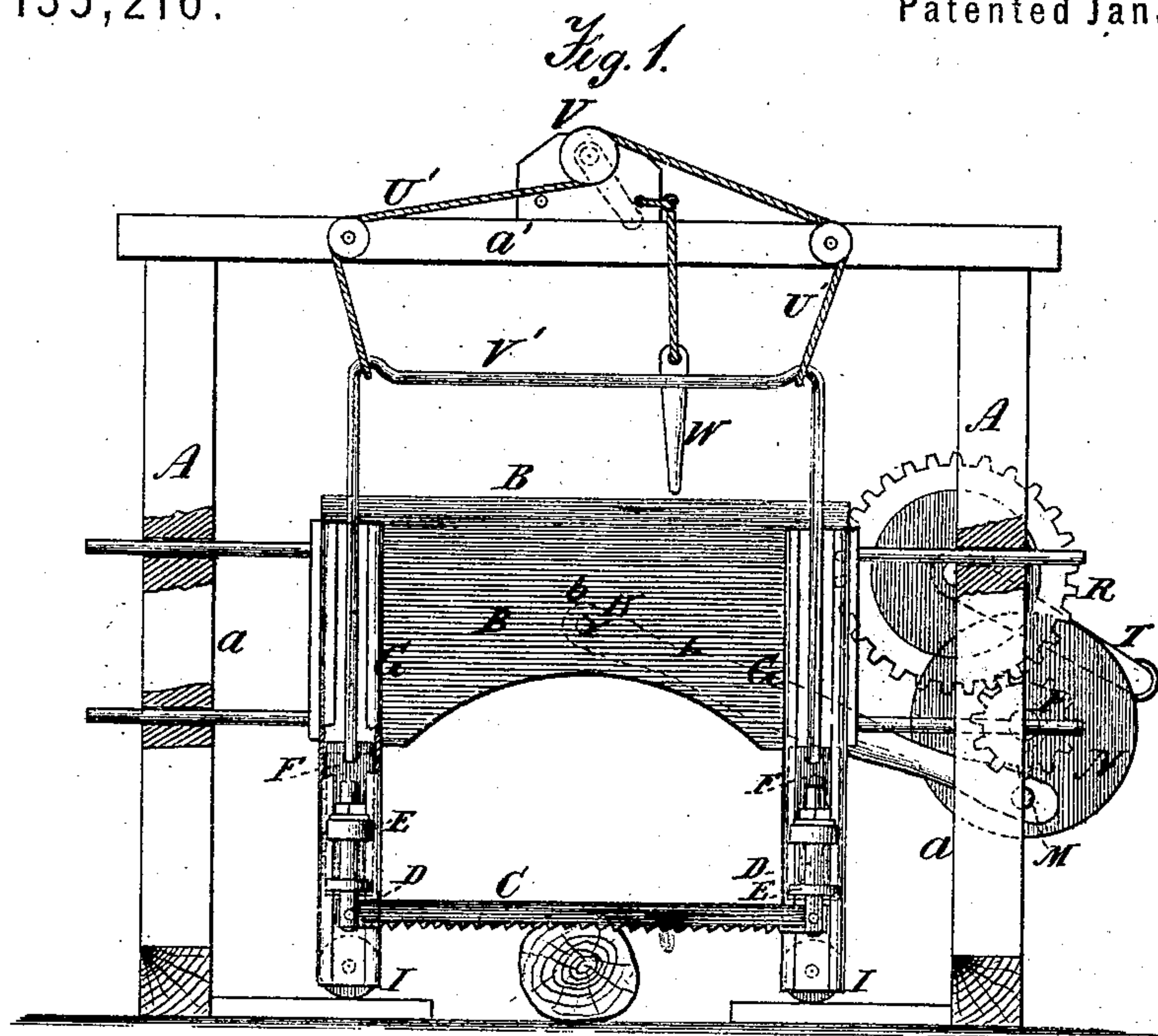


S. FUNCK.  
Wood Sawing-Machines.

No. 135,216.

Patented Jan. 28, 1873.



Witnesses.  
A. Ruppert.  
W. H. Knies,

Inventor.  
Samuel Funck  
by his attys.  
Cox and Cox



# UNITED STATES PATENT OFFICE.

SAMUEL FUNCK, OF QUINCY, ILLINOIS.

## IMPROVEMENT IN WOOD-SAWING MACHINES.

Specification forming part of Letters Patent No. 135,216, dated January 28, 1873.

*To all whom it may concern:*

Be it known that I, SAMUEL FUNCK, of Quincy, Illinois, have made and invented a new and useful Improvement in Wood-Sawing Machines, of which the following is a specification:

### *Nature and Objects of the Invention.*

My invention has relation to an improved machine for sawing wood; and consists of an open frame, at the top of one side of which, attached to two uprights, is secured a horizontal beam, below which the sawing apparatus is placed. An ordinary saw is fastened in any convenient manner at either end to metallic slides that work in grooves attached to the two upright pieces of a frame, the top piece of which is horizontal. To the lower ends of the vertical pieces last-aforsaid rollers are secured, upon which the saw-frame rests—two or more guide-rods on either side, which pass through the adjacent uprights of the principal frame, assisting in holding it in place as well as in giving it, when in motion, a true direction. To the slides to which the ends of the saw are fastened either end of a metallic rod is attached, which, bent in rectangular form, extends upward above the top of the saw-frame. At its corners cords are fastened, which are secured to a windlass, by means of which the saw-frame may be elevated. Securely fastened to the rear side of the saw-frame is a pivot, upon which a pitman works that, connected with gearings and a crank, actuates the sawing mechanism.

### *Description of the Accompanying Drawing.*

Figure 1 is an elevation of my machine. Fig. 2 is a plan view of the same. Fig. 3 is a detached view of one of the slides.

### *General Description.*

A is the principal frame, suitably constructed for the purposes for which it is designed, which consists of four uprights and the same number of horizontal top pieces, the lower ends of the former being fastened to sleepers or otherwise firmly secured. B is the saw-frame, which is made of two upright beams and one horizontal top piece of such size that it may be properly actuated within the plane that passes through the uprights *a a* and top

piece *a'*. C is the saw, which is of the usual crosscut form, either end of which is secured to the bolts D that pass through the ears E upon the slides F. The slides F are constructed so as to admit of their being raised or lowered within the vertical beds G, which are fastened to the upright pieces, their sides being carried beyond the edges of the slide to prevent it from being dislocated. (See Fig. 1.) Rigidly fixed in the saw-frame are the horizontal guide-rods H, which pass through the uprights *a a*, and are made of sufficient length to permit the necessary movement of the saw-frame. Turning within slots cut in the vertical pieces of the saw-frame are the rollers I, upon which the frame rests, and which serve to facilitate its operation. At a convenient point upon the rear side of the horizontal piece *b* the pivot or pin K is attached, and working upon it is one end of the pitman L, the other end of which turns upon the pivot or pin M upon the wheel N, which is rigidly secured to the axle O. A gear-wheel, P, at a point upon the axle O toward the rear, is operated by a gear-wheel, R, upon the axle S that is provided with a crank, T, being placed in a convenient position to effect its purposes. Upon the horizontal top piece *a'* a windlass, V, which is of the usual form, is placed, the crank U extending toward the rear, two grooves being cut in that portion which extends beyond the front of the frame. Cords U' are fastened so as to roll in either of the grooves, passing over rollers attached to the piece A, as shown in Fig. 2. The cords U' are fastened to the rod V, which is attached to the slides F, being bent upward in a rectangular or other convenient form. A pin, W, may be used to hold the crank U in place, a hole being cut to receive it.

### *Operation.*

The wood to be sawed being placed in position below the saw, the crank T is turned, when motion is communicated to the saw-frame, moving it from side to side; it being desired to raise the saw, the crank U is turned, when it is drawn upward at pleasure. The pin W being applied, the saw remains suspended.

### *Claim.*

Having thus described my invention, what

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

The saw-frame B, consisting of two vertical and one horizontal pieces, provided with the guide-rods H, rollers I, vertical slide-beds G, and pivot K, in combination with the pitman L, wheel N, axle O, and gear-wheels P and R, when arranged and operated substantially as shown and described.

In testimony that I claim the foregoing improvement in machines for sawing wood, as above described, I have hereunto set my hand and seal this 5th day of October, 1872.

SAMUEL FUNCK. [L. S.]

Witnesses:

L. E. EMMONS,  
JOHN HUTTON.