

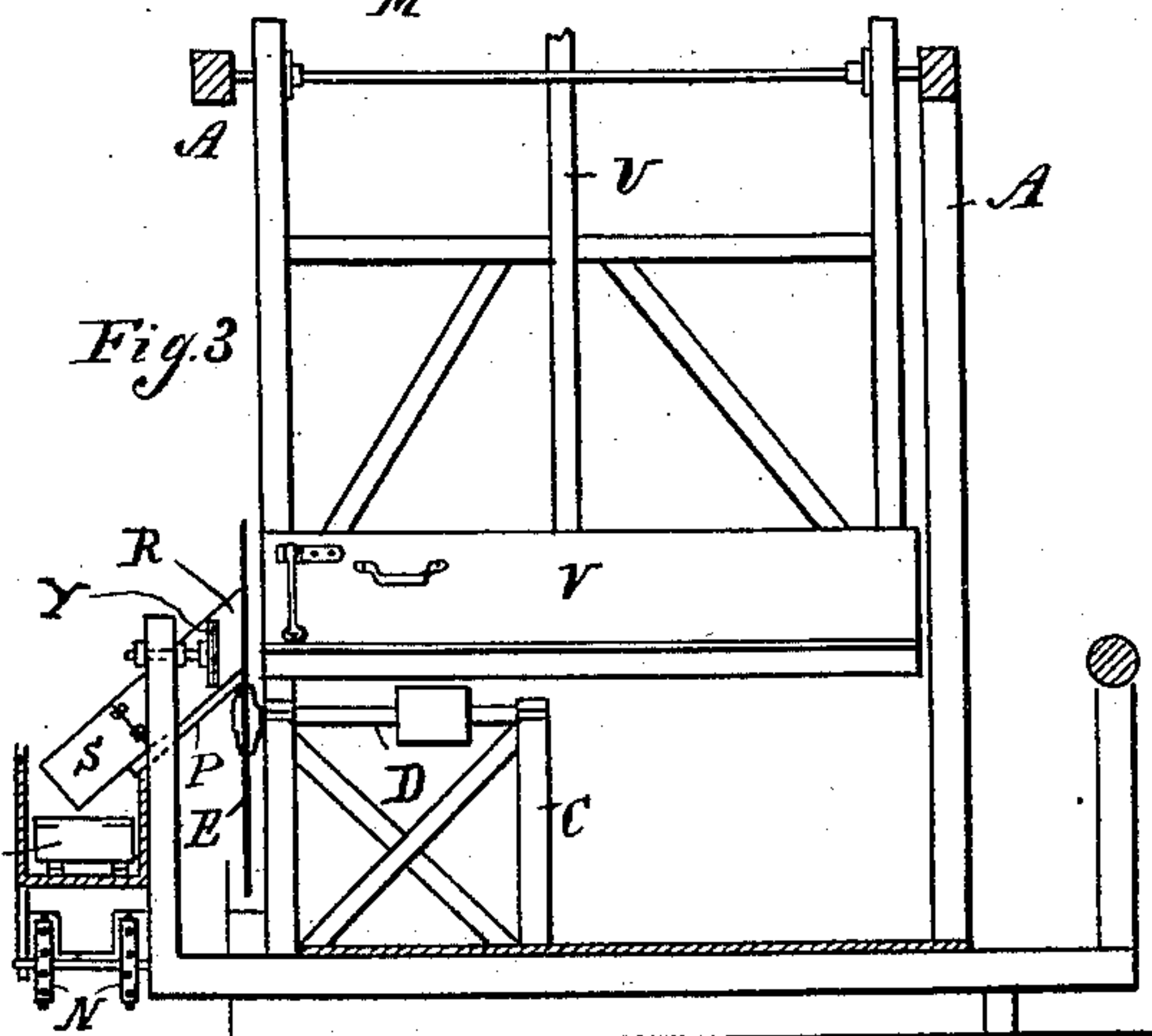
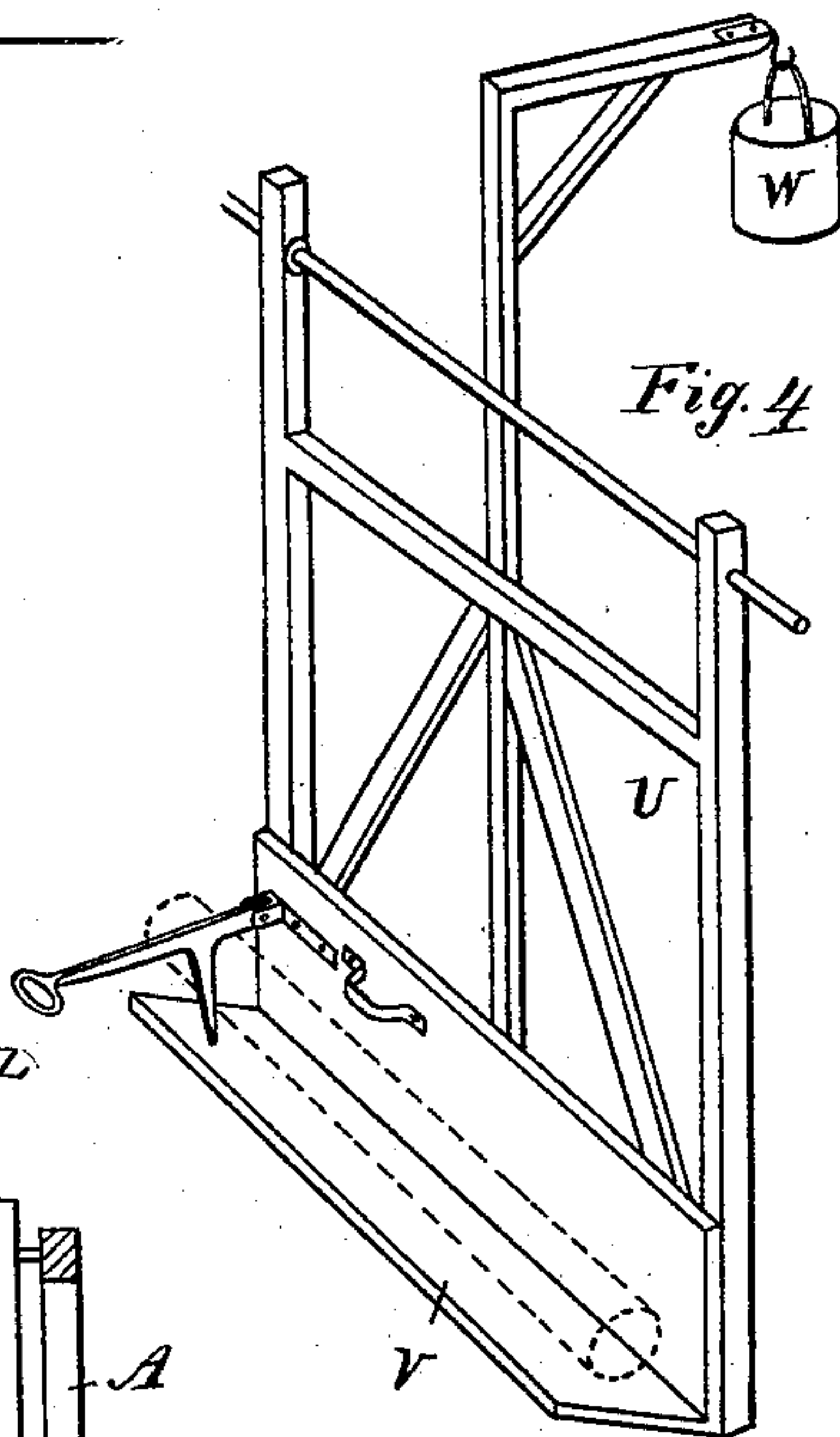
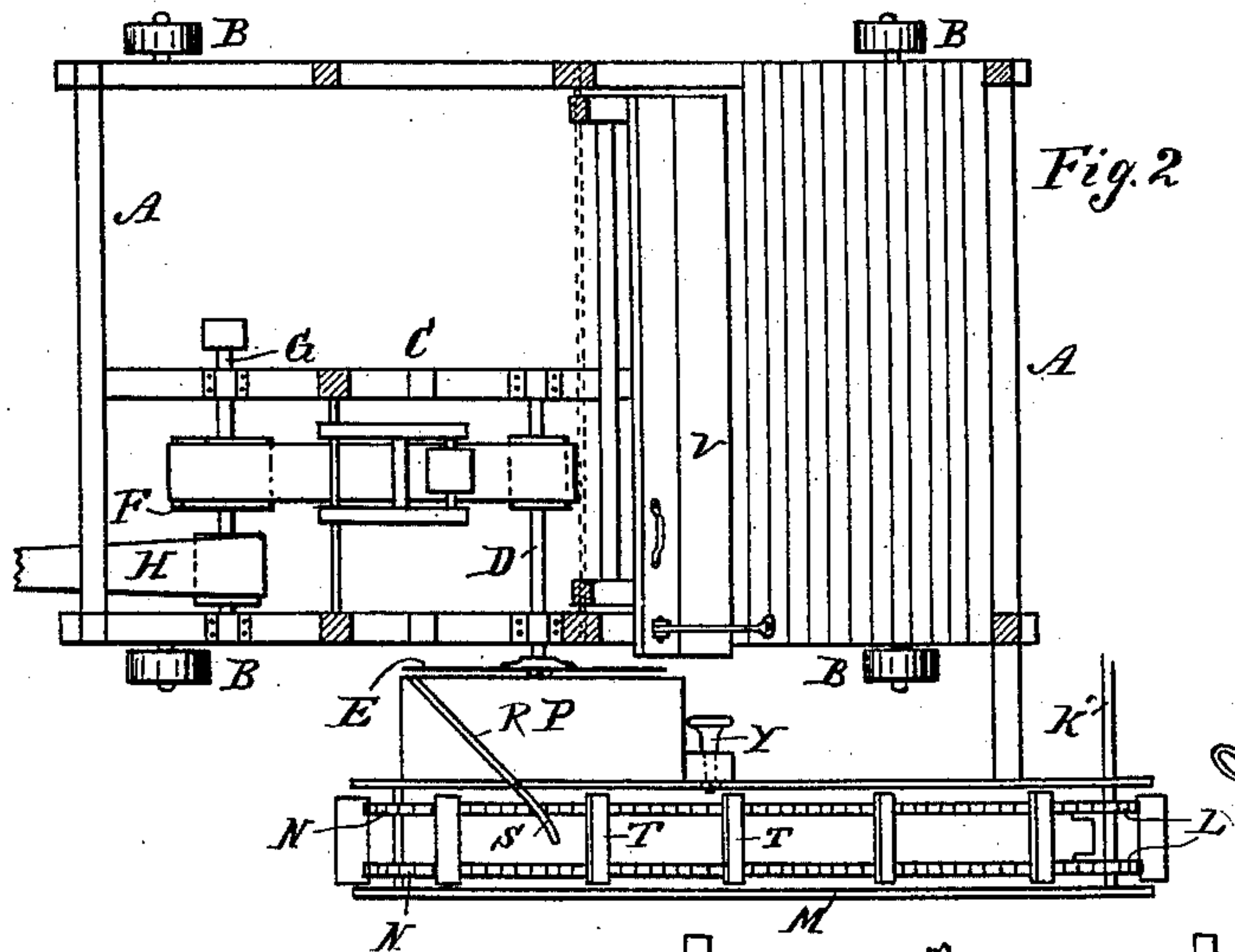
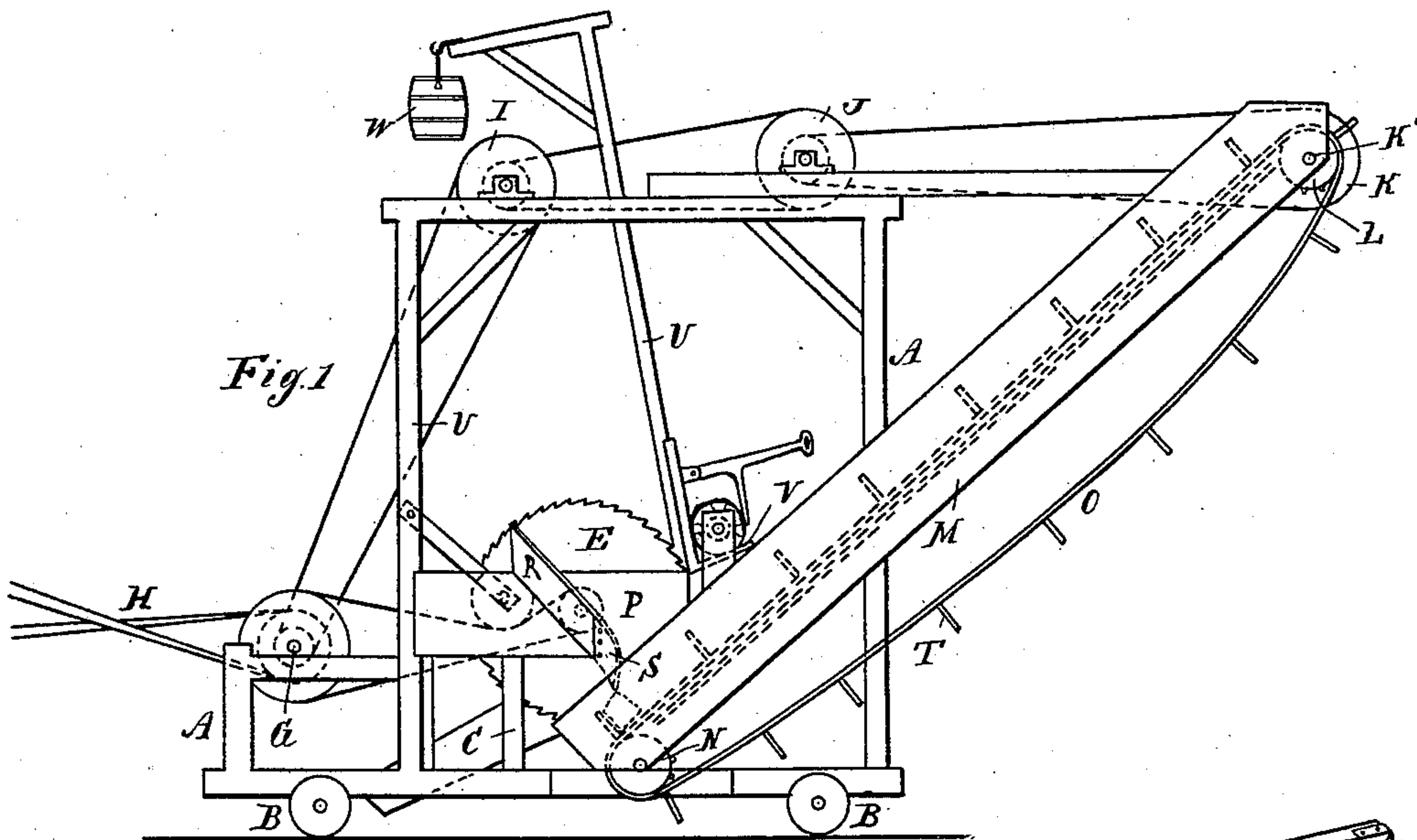
(No Model.)

W. P. LANGLEY.

SAWING MACHINE.

No. 387,648.

Patented Aug. 14, 1888.



Attest:  
John Schuman.  
*[Signature]*

Inventor:  
Will P. Langley.  
by his Atty  
W. L. Sprague.



# UNITED STATES PATENT OFFICE.

WILL P. LANGLEY, OF DETROIT, MICHIGAN.

## SAWING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 387,648, dated August 14, 1888.

Application filed October 22, 1886. Renewed May 28, 1888. Serial No. 275,294. (No model.)

*To all whom it may concern:*

Be it known that I, WILL P. LANGLEY, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Sawing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in sawing-machines, the object of the invention being to construct a machine that is especially adapted for sawing paving-blocks and for elevating and delivering them into a wagon or other proper receptacle, saving the expense of unnecessary handling.

To that end the invention consists in the peculiar construction of a sawing-machine which is provided with an oscillating table for delivering the log to the saw, in the peculiar construction and application of a guide and yielding gate for delivering the block to a carrier, and in the peculiar construction, arrangement, and combination of the various parts, all as more fully hereinafter set forth.

Figure 1 is a side elevation of my improved device. Fig. 2 is a plan. Fig. 3 is an end sectional elevation, and Fig. 4 is a perspective of the oscillating table.

In the accompanying drawings, which form a part of this specification, A represents a suitable frame, which, if desired, may be mounted upon suitable trucks, B, for the purpose of easy transportation from place to place. Within the frame A is secured a smaller frame, C, in which the saw-arbor D is properly journaled, the outer end of which carries the saw E. This saw-arbor is designed to be run by a belt from a pulley, F, upon the shaft G, which latter is designed to be operated by a belt, H, from any suitable power.

On the top of the frame A are journaled suitable shafts, which carry the pulleys I, J, and K, these pulleys being arranged to be driven by belt-connection from the shaft G. Upon the opposite end of the shaft K', which carries the pulley K, are secured suitable sprocket-wheels, L, and in the lower end of the carrier-box M are secured similar sprocket-wheels, N, over which and the sprocket-wheels L an endless carrier, O, travels, the same being operated through the medium of the shaft

K'. Between this carrier-box and the saw, and as close to the latter as is consistent with safety, is erected an inclined table, P, which is coincident with the cut-away portion of the adjacent side of the carrier-box. Upon this table is secured a guide-board, R, to the lower end of which is secured a swinging gate, S, which forms an extension to said guide-board and projects into the carrier-box, its free end being but slightly above the buckets or wings T of such carrier. Any suitable means may be provided for causing the gate to return to its normal position after the passage of the block.

U is a swinging or rocking frame pivotally secured or hung upon a bar secured transversely in the top of the frame A, and this frame U carries a table, V, provided with any suitable devices for readily holding the log to be operated upon, as shown in Fig. 4.

The frame U is provided with an arm, upon which to hang the counter-weight W, for the purpose of keeping the table in its normal position, Fig. 1—that is, so that when a log is placed upon such table the log can be pushed by in front of the saw without coming in contact therewith.

Y is a gage-block, made adjustable, and against which the log to be operated upon is pushed, so that the blocks sawed shall be of a uniform length.

By the employment of a device of this character it will be seen that the only operator that is required is one to receive the log as it is placed upon the carriage and to push the same up against the stop Y, after which the table is pushed forward, bringing the log into contact with the saw, which severs it. The block, dropping upon the table P, slides into the carrier-box, is elevated by the same, and discharged at the top into a wagon or into a supplemental carrier arranged to conduct it to any desired point.

The gate S yields sufficiently so as not to bind a block between it and the blades or buckets of the carrier, while at the same time it assures a positive delivery of the block to the carrier.

What I claim as my invention is—

1. In combination with a sawing-machine, substantially as described, provided with an elevating-carrier, an inclined table, P, located between such carrier and the saw, said table

being provided with a guide, R, and gate S, pivoted to said guide, substantially as and for the purposes described.

2. In a machine for the purpose described,  
5 the combination of the portable frame A, carrying a saw, E, adapted to be operated from any suitable power, an oscillating table, U, an elevating-carrier, O, and an inclined table, P,

provided with a guide, R, and gate S, pivoted to said guide, all combined and operating in the manner and for the purposes described.

WILL P. LANGLEY.

Witnesses:

H. S. SPRAGUE,  
E. SCULLY.