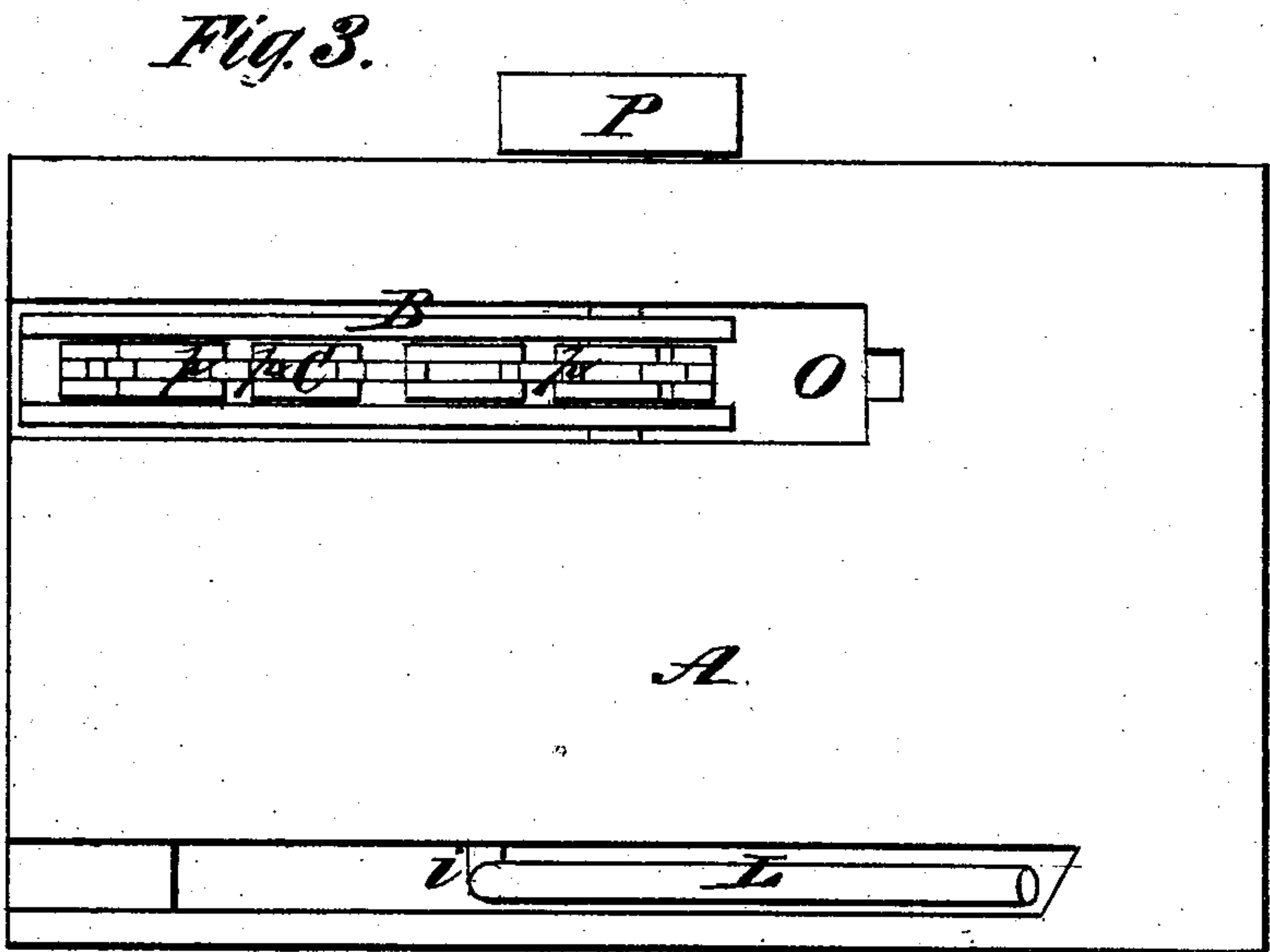
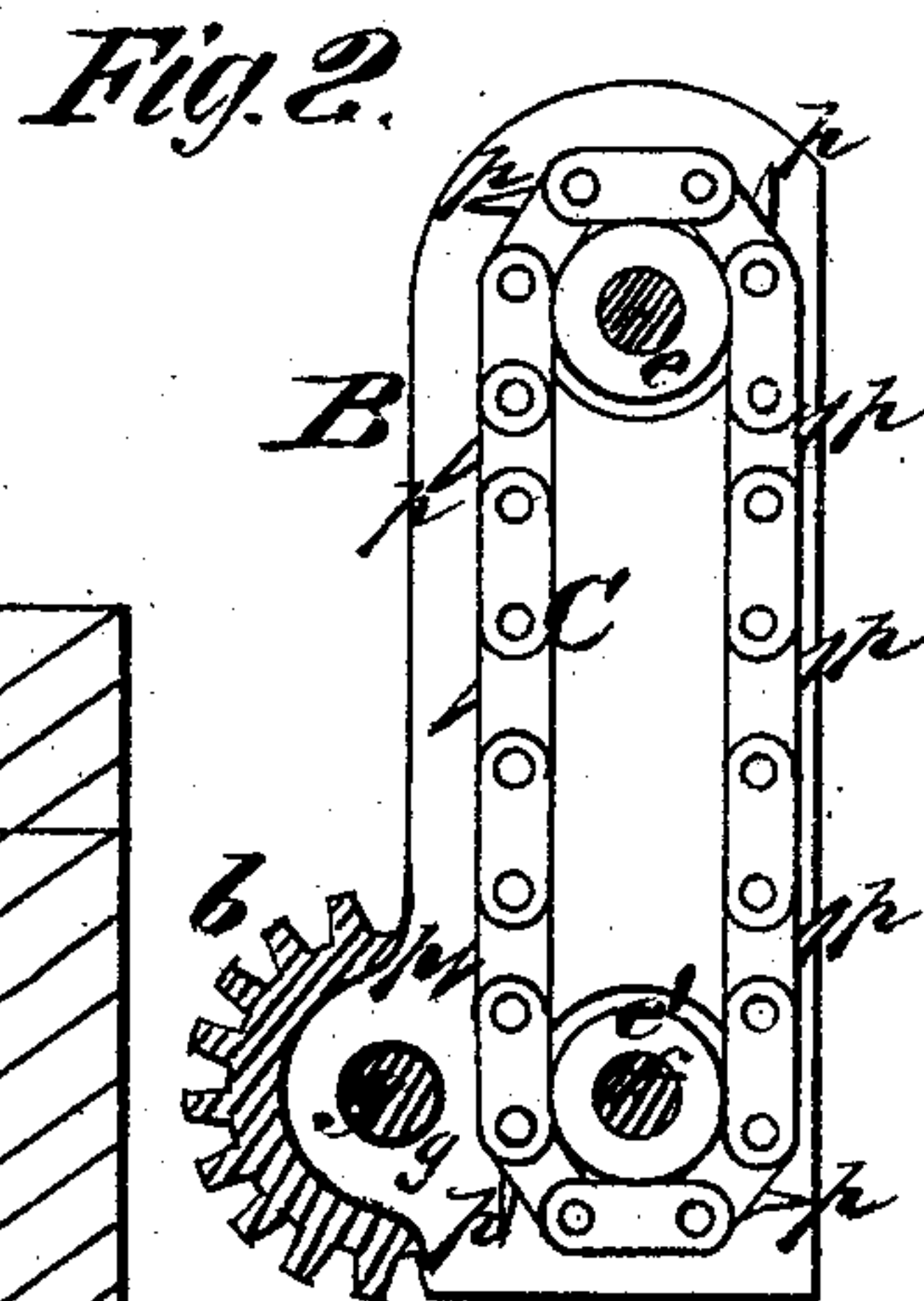
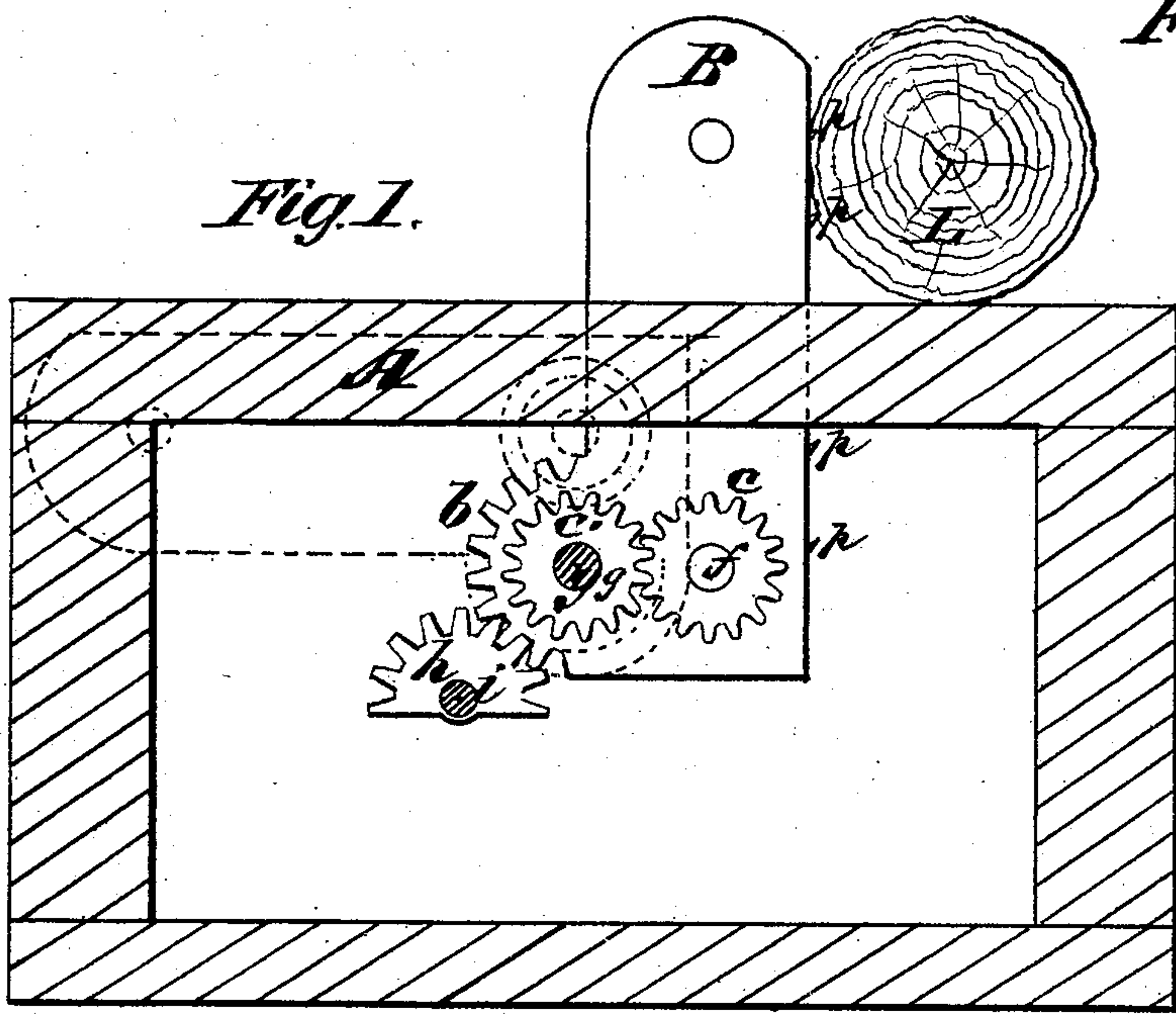


I. W. POOL.
Log-Turners.

No. 140,386.

Patented July 1, 1873.



Witnesses.
R. T. Campbell,
J. H. Campbell.

Inventor.
Isaac W. Pool
by
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UNITED STATES PATENT OFFICE.

ISAAC W. POOL, OF EAU CLAIRE, WISCONSIN.

IMPROVEMENT IN LOG-TURNERS.

Specification forming part of Letters Patent No. **140,386**, dated July 1, 1873; application filed April 19, 1873.

To all whom it may concern:

Be it known that I, ISAAC W. POOL, of Eau Claire, in the county of Eau Claire and State of Wisconsin, have invented a new Improvement in Log-Turners; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making part of this specification, in which—

Figure 1 is a sectional view of the frame in which my turner is applied, representing the turner in a vertical position. Fig. 2 is a vertical section through the turner detached from its frame. Fig. 3 is a top view of the frame of Fig. 1, representing the turner in a horizontal position.

Similar letters of reference indicate corresponding parts in the several figures.

The object of this invention is to provide means for moving a log into position on the saw-carriage, and against the knees thereon, and also for turning the log while on the carriage, as will be hereinafter explained.

The following description of my invention will enable others skilled in the art to understand it:

The log-turner which I am about to describe will, in practice, be arranged in front of the saw-carriage, and about the center thereof, so as to move the logs upon the carriage against the knees or brackets, and to turn them when desired.

In the accompanying drawings, A represents the frame which supports the turner B, and C represents an endless chain applied between the two side plates of the turner, every other link of which chain is constructed with a pointed tooth or spur, *p*, for the purpose of turning a log. This spurred chain C is passed around two rollers, *e e'*, the lower one, *e'*, of which is keyed on a shaft, *f*, which carries on one end a wheel, *c*, outside of the

turner, which wheel engages with a wheel, *c'*, of corresponding diameter, on a shaft, *g*. The shaft *g* carries on one end a belt-wheel, P, to which motion can be communicated from any convenient shaft of the main driving-power of the mill, and at the will of the operator. On this shaft the turner B is allowed to vibrate freely, which vibration is given to it by means of a lever, L, on a rock-shaft, *i*, on which shaft is keyed a toothed segment, *h*, the teeth of which engage with the teeth of a segment *b*, formed on the turner B. By pivoting the log-turner B on the shaft *g*, and employing a segment, *h*, on an oscillating shaft, *i*, on which is a hand-lever, L, the operator can adjust the turner in a horizontal position, as indicated in Fig. 1 in dotted lines, and in Fig. 2, in full lines, in which position of the turner a log can be rolled over it upon the floor or top of frame A; then by moving the lever L the free end of the turner can be raised, which operation will move the log forward and against the knees of the carriage. After moving the log in proper position upon the carriage it can be turned at will by rotating the shaft *g*.

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

1. The spurred chain C, applied to a log mover and turner, B, which is applied loosely on a shaft, *g*, in combination with wheels *c c'*, substantially as described.

2. The toothed segment *b* on the vibrating log mover and turner B, in combination with the toothed segment *h* on the shaft *i* of lever F, substantially as described.

ISAAC W. POOL.

Witnesses:

L. P. GILBERT,
ISADORE COOK.