

N. Hunt, Head Block.

No. 92828.

Patented July 20, 1869.

Fig. 1.

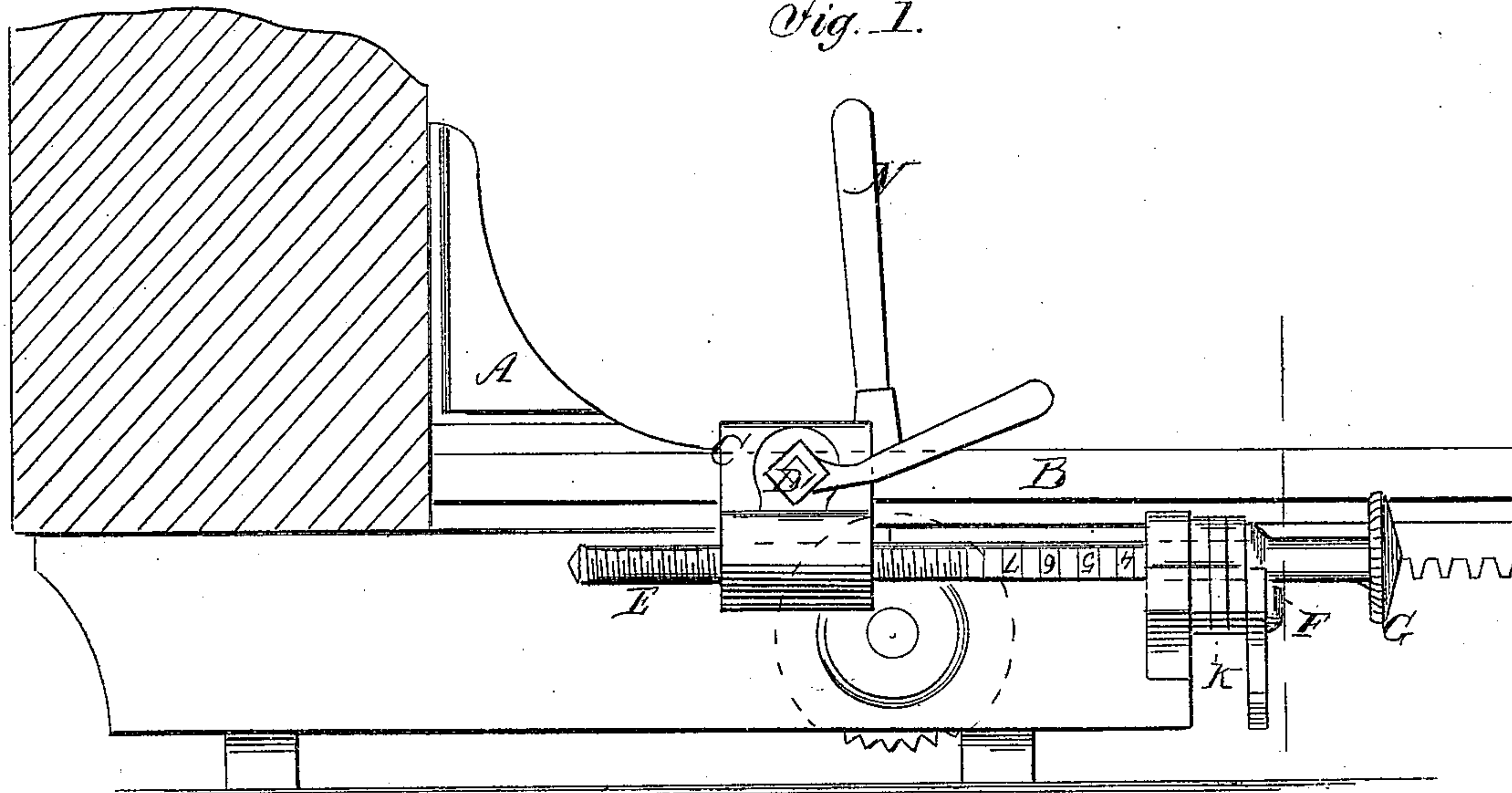


Fig. 2.

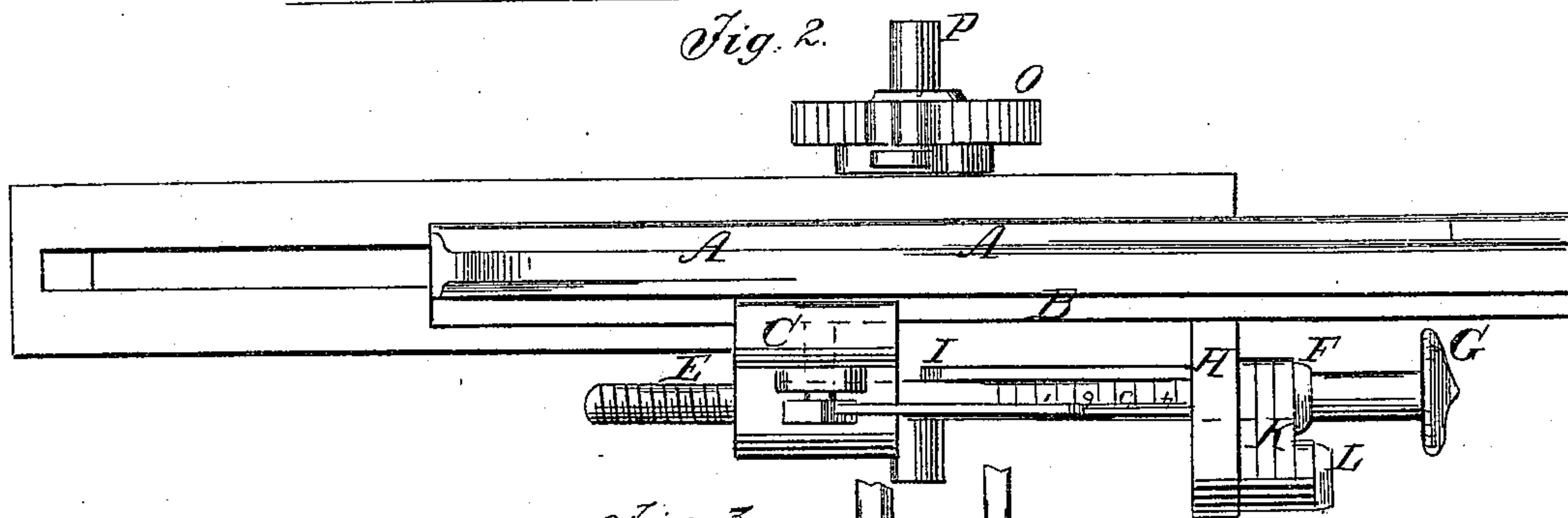
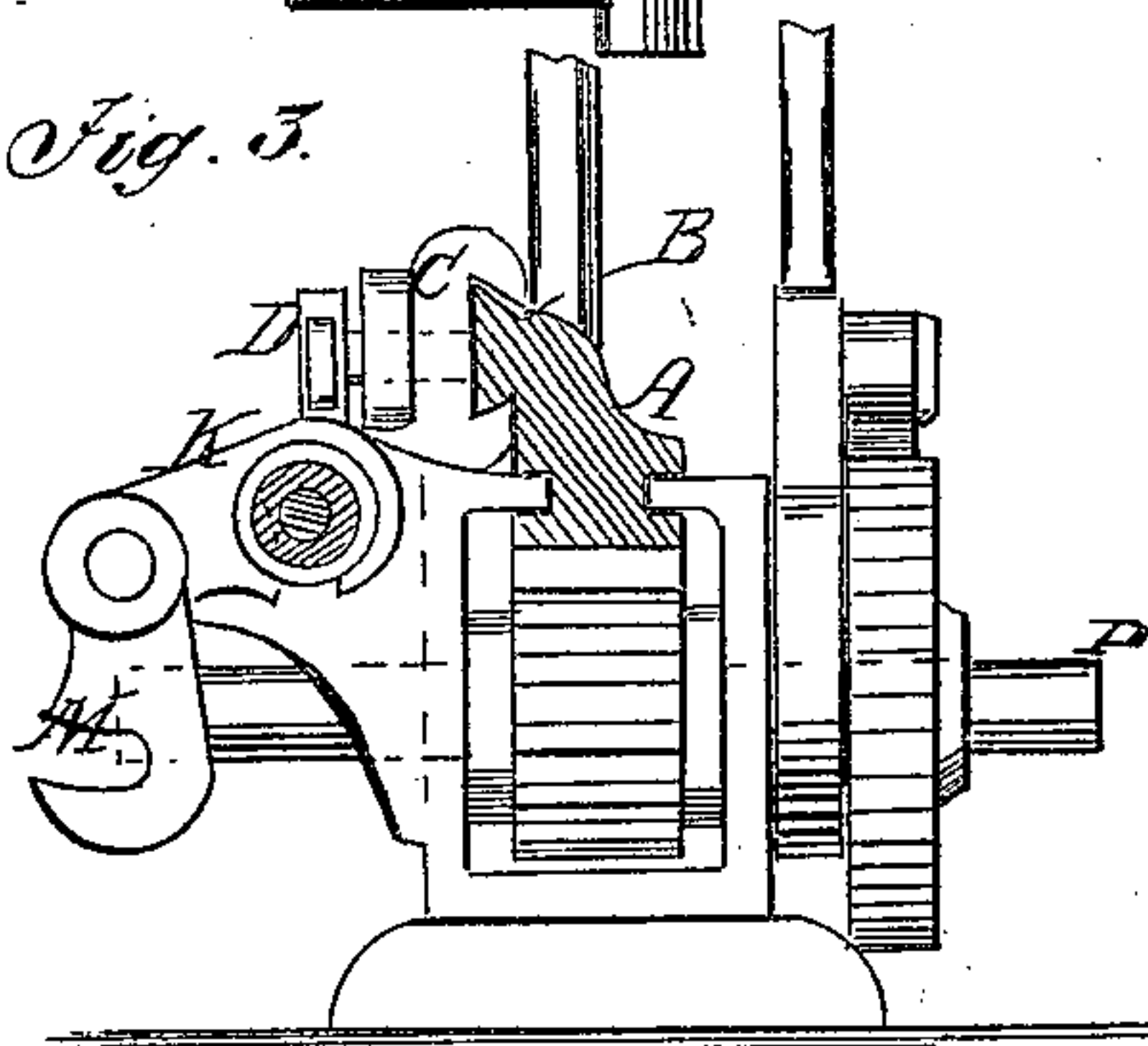


Fig. 3.



Witnesses:

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United States Patent Office.

NATHAN HUNT, OF SALEM, OHIO.

Letters Patent No. 92,828, dated July 20, 1869.

IMPROVEMENT IN HEAD-BLOCKS.

The Schedule referred to in these Letters Patent and making part of the same

To all whom it may concern:

Be it known that I, NATHAN HUNT, of Salem, in the county of Columbiana, and State of Ohio, have invented a new and improved Gauge-Attachment for Head-Blocks; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The object of this invention is to provide a simple and reliable gauge-attachment for head-blocks, such as are used in circular-saw mills, and arranged for setting by a lever, pawl, and ratchet-wheel, the attachment being designed to secure greater accuracy in setting than can be had by the usual arrangement.

The invention consists of a sliding nut, applied to a dovetailed way on the bracket of the head-block, and capable of being readily clamped to the said way, to move with it, or loosened, to slide back on it after setting, and provided with a screwed rod, sliding freely through a fixed bracket in the same direction with the nut, and having a collar, which, striking against the face of the bracket through which it slides, arrests the motion of the nut and the sliding bracket at the point required for setting the log. The said nut is then released from the bracket to which it is clamped, while setting, and drawn back, together with and by the said screwed rod, against a stop, preparatory to the next setting, and then clamped to the way or bracket again.

The invention also embraces certain swinging stops, to be interposed between the collar of the screw and the arresting-bracket, to be used, when required, for setting for stuff of different thicknesses, all substantially as hereinafter more fully specified.

Figure 1 represents a side elevation of a head-block, with my improvements attached.

Figure 2 represents a plan view of the same.

Figure 3 represents a transverse section, taken on the line *x-x* of fig. 1.

Similar letters of reference indicate corresponding parts.

The bracket A of the head-block is provided with a dovetailed way, B, whereon a nut, C, is fitted to slide, and provided with a clamping-screw and hand-lever, D, by which it may be readily clamped to the way, or released, so as to slide freely thereon.

Through this nut, and parallel with the bracket A, a screwed rod, E, passes, which is provided with a collar, F, and an enlarged milled head, G.

This rod passes freely through a bracket, H, projecting from the head-block, adjacent to the said collar.

I represents a stop or ledge on the side of the head-

block, to arrest the movement of the screwed nut C, towards the rear end of the head-block.

K represents a number of swinging stops, pivoted upon a stud projecting from the bracket H, parallel with the screw E, having notches, M, which engage the screw-rod in advance of the collar, and between it and the bracket H, when the said screw-rod is sufficiently withdrawn.

These stops may be any preferred fractional parts of an inch in thickness.

The rod F is provided with a scale, to indicate the distance it may be withdrawn from the bracket H or stops.

The operation is as follows:

The nut C, being withdrawn against the ledge I, and clamped tightly against the way B, the screwed rod C is withdrawn, by screwing it out until the collar F is as far away from the bracket H (or from the stops K, if they are to be engaged with the rod,) as the required thickness of the stuff to be sawed, plus the waste by the saw.

The log is set forward then by the hand-lever N, working upon the ratchet-wheel O in the usual way, until the collar F strikes the stops K or the bracket H.

Then, while the sawing is taking place, the nut C is loosened from the way B, and drawn back against the stop I by the rod F, when it is again clamped to the way B, ready for again setting in the same way, and so on continuously, thus regulating the setting with great accuracy.

If, at any time, it be required to saw off a thicker plank than those for which the rod is set, as many of the stops K as represent the required additional thickness may be thrown off the rod, out of the way of the collar, permitting the rod, and consequently the bracket A, to move so much further in setting.

This device is to be attached to the head-block, on which the setting is effected, the other block being operated through the medium of the same shaft, P, which operates the one to which this device is connected.

Having thus described my invention,

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

1. The combination of the bracket A, nut C, screwed rod E, and bracket H, when arranged for operation, substantially as specified.

2. The combination, with the above, of the swinging dogs K, substantially as specified.

NATHAN HUNT.

Witnesses:

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