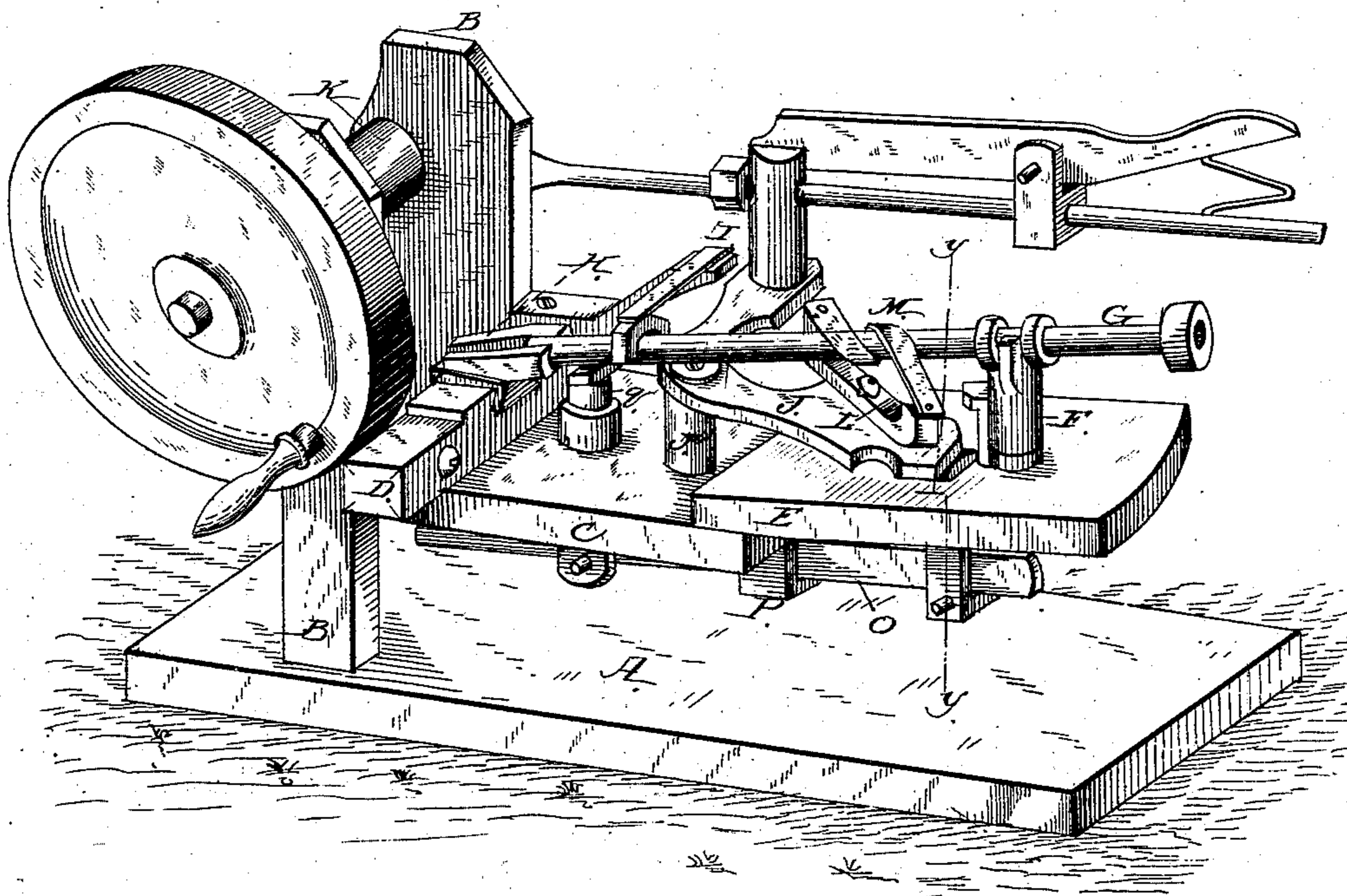


A. TRUMBOUR.
Nail-Plate Feeder.

No. 225,438.

Patented Mar. 9, 1880.

Fig. 1.



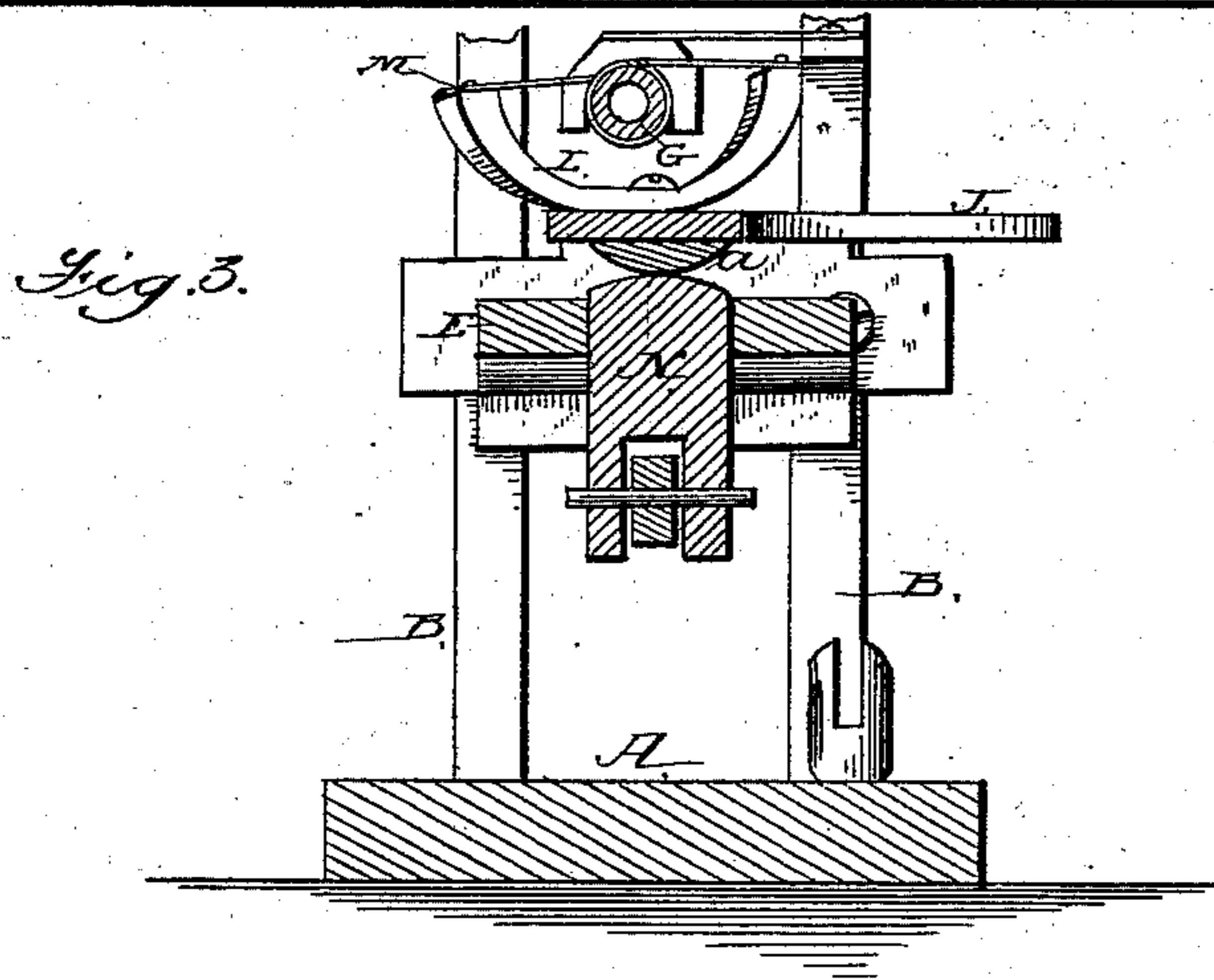
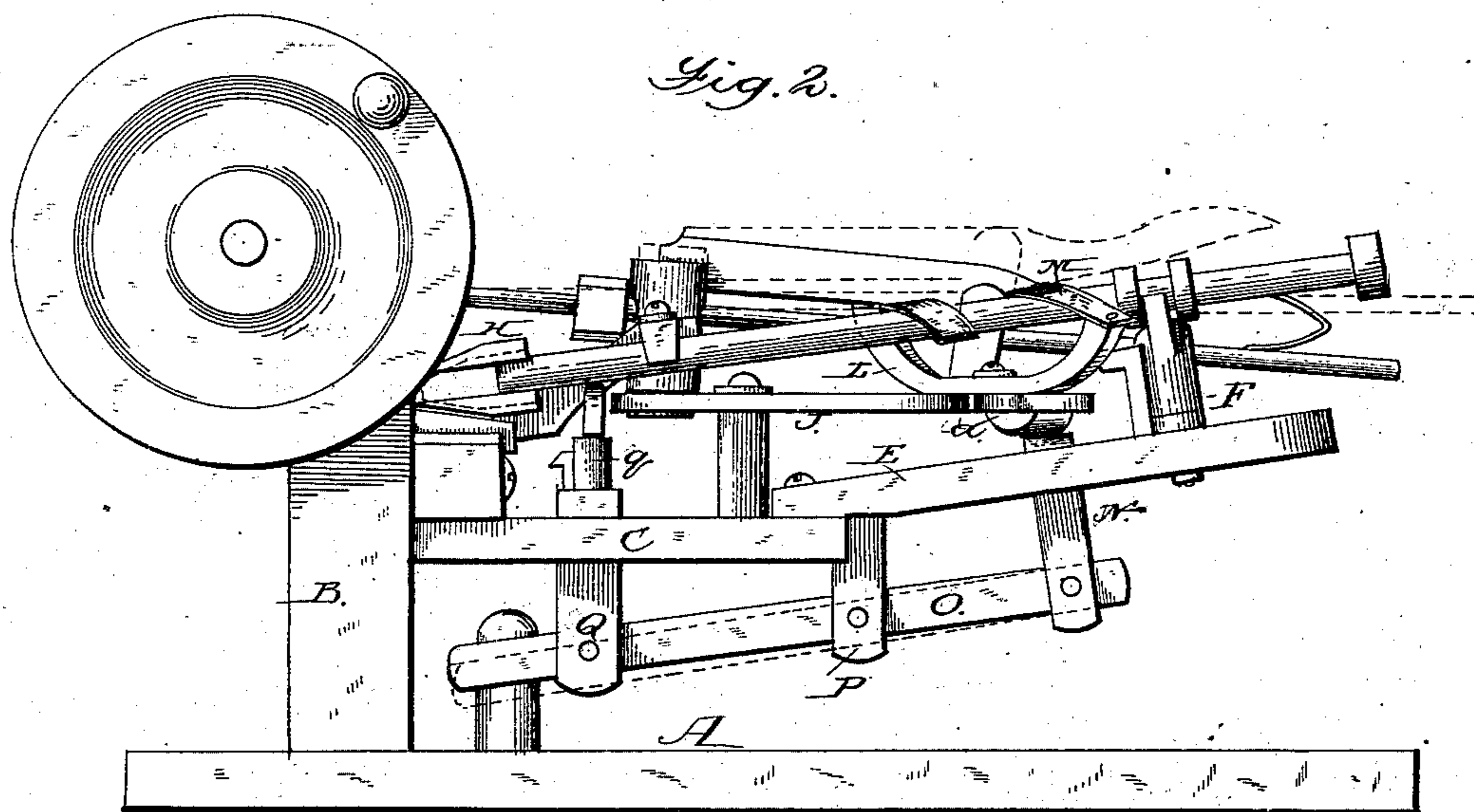
Attest;
P. Walter Fowler,
W. H. Morrill

Inventor;
Adam Trumbour
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UNITED STATES PATENT OFFICE.

ADAM TRUMBOUR, OF HARRISBURG, PENNSYLVANIA.

NAIL-PLATE FEEDER.

SPECIFICATION forming part of Letters Patent No. 225,438, dated March 9, 1880.

Application filed November 26, 1879.

To all whom it may concern:

Be it known that I, ADAM TRUMBOUR, of Harrisburg, Pennsylvania, have invented a new and Improved Nail-Plate Feeder, of which the following is a clear, full, and exact description, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of a nail-feeder with my improvements attached. Fig. 2 is a side elevation of the same. Fig. 3 is a section through *y y* in Fig. 1.

To enable others skilled in the art to make and use my invention, I will proceed to describe the exact manner in which I have carried it out.

My invention relates to that class of nail-feeders in which the nail-rod is fed through a barrel, and which are known as "barrel self-feeders;" and my invention is more particularly applicable to machines for making tacks and 3d. nails where long slitted or hoop iron is used; and it consists in a method of avoiding friction on the bed-knife while the nose-piece attached to the end of the barrel is being turned.

In feeders as now constructed the nose-piece bears hard on the bed-knife while turning over, which necessitates the use of oil or grease to overcome the tendency to chafe or grind away. Moreover, at each turn of the nose-piece it drops suddenly upon the bed-knife and causes a jar, which is very injurious to the effective working of the feeder.

The object of my invention is to overcome these several difficulties by raising the nose-piece at every turn, so as to clear it of the bed-knife, and lowering it again gradually and smoothly, so as to avoid any grinding or jarring.

In the drawings, A represents the base of the feeder, on which are secured the upright posts B B. These posts sustain the cross-beam C, on which rests the bed-knife D. To the cross-beam C is also secured the platform E, to support a portion of the operative mechanism, as shown in Figs. 1 and 2.

On the outer end of the platform is the stud F, formed at the top for holding the outer end of the barrel G, the opposite end of the barrel having attached to it the nose-piece H, resting on the bed-knife D, and being held in position by the spring-clutch I, as shown in Fig. 1.

Beneath the barrel G is secured the bell-crank lever J, pivoted to the post J', and operated by a pitman extending to the crank-shaft K.

On one end or arm of the lever is secured the bow L, diagonal to the arm of the lever. To this bow is attached a string or strap, M, passing around the barrel G, as shown in Fig. 1, and drawn sufficiently taut to cause the barrel to revolve by the reciprocating movement of the arm of the lever.

Immediately underneath the inner end of the lever J, I secure a double-faced cam, *a*, which, by the movement of lever, is caused to pass over and press down the block N, which operates the lever O, pivoted at P.

It is evident that when the block N is depressed by the cam *a* the lever O will raise the post Q, and with it raise the end of the barrel carrying the nose-piece, and this at each motion of the lever J or at each turn of the nose-piece.

The post Q is made hollow to admit the adjusting-bar *q*, by which the pressure under the nose-piece is adjusted and the height to which it is to be raised is determined by the operator. I thus secure an automatic means, whereby the nose-piece is raised and lowered to avoid grinding and jarring on the bed-knife.

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

The barrel G, provided with the nose-piece H, in combination with levers J and O, cam *a*, block N, and post Q, substantially as and for the purpose set forth.

ADAM TRUMBOUR.

Witnesses:

OLIVER A. MACDONALD,
LEVI POULTON.