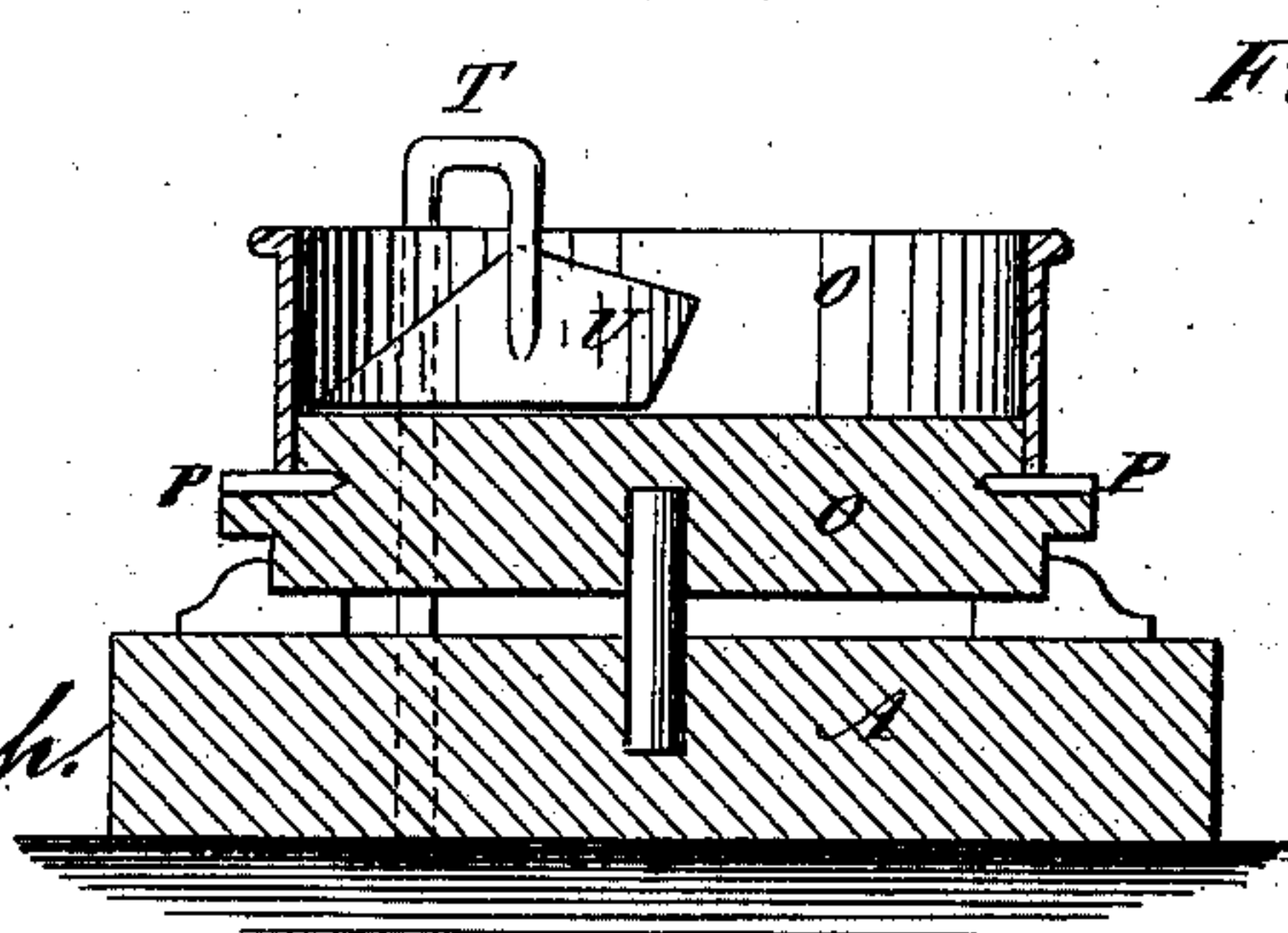
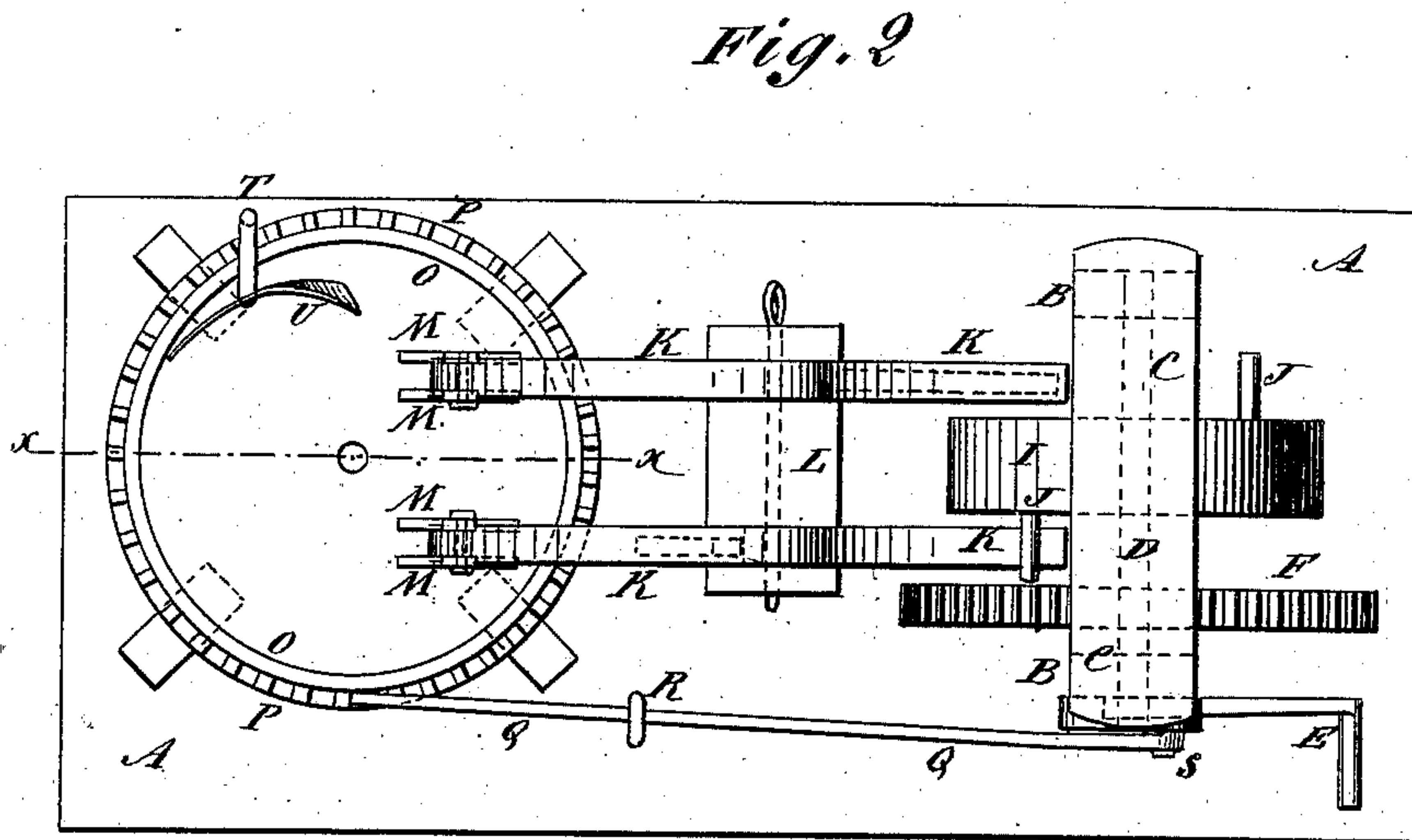
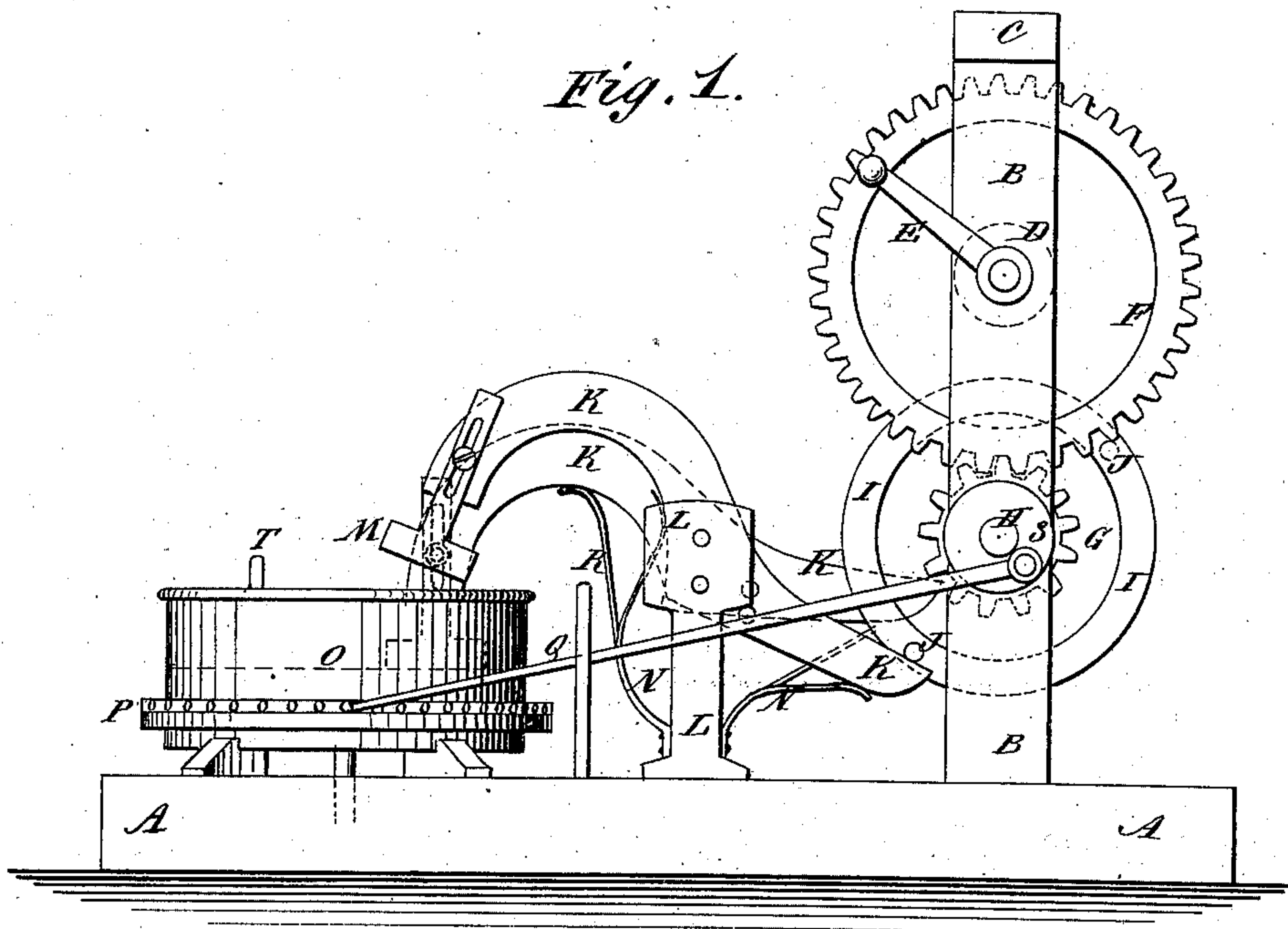


J. C. LLOYD.
MEAT-CHOPPERS.

No. 194,557.

Patented Aug. 28, 1877.



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN C. LLOYD, NORTHUMBERLAND, PENNSYLVANIA.

IMPROVEMENT IN MEAT-CHOPPERES.

Specification forming part of Letters Patent No. **194,557**, dated August 28, 1877; application filed February 26, 1877.

To all whom it may concern:

Be it known that I, JOHN C. LLOYD, of Northumberland, in the county of Northumberland and State of Pennsylvania, have invented a new and useful Improvement in Meat-Chopper, of which the following is a specification:

Figure 1 is a side view of my improved machine. Fig. 2 is a top view of the same. Fig. 3 is a detail vertical section of the meat-box, taken through the line *xx*, Fig. 2.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved machine for chopping meat, which shall be simple in construction, effective in operation, convenient in use, and easily operated.

The invention will first be described in connection with the drawing, and then pointed out in the claim.

A is the bed-plate or platform of the machine, to the rear part of which are attached two posts, B, the upper ends of which are connected by a cross-bar, C.

In bearings in the upper part of the posts B revolves a shaft, D, to which power is applied by a crank, E, or other suitable means. To the shaft D is attached a large gear-wheel, F, the teeth of which mesh into the teeth of the small gear-wheel G, attached to the shaft H. The shaft H revolves in bearings in the lower parts of the posts B. To the shaft H is attached a wheel, I, which is made heavy to adapt it to serve also as a balance-wheel. To the opposite sides of the opposite parts of the wheel I are attached pins J, which, as the said wheel I revolves, strike against the rear ends of the two levers K, and operate them. The levers K are pivoted to a post, L, attached to the platform A, and their forward parts are curved upward, forward, and downward, so that their forward ends may enter the meat-box.

To the forward ends of the levers K are attached the knives M, which may be attached to the sides of the said ends, as shown in the drawings, or to the front of the said ends by means of a plate, or under said ends by means of a bar and set-screws. The knives M are adjustable, so that they can be set forward as they wear.

The forward parts of the levers K are made

heavy so that the blow may be given by their weight, and the force of the blow may be regulated by springs N attached to the post L, and arranged to bear up against the forward part of the levers K to lessen the force of the blow, and to bear up against the rear parts of said levers to increase the force of the blow. Both arrangements of the springs N are shown in Fig. 1.

O is the meat-box, which is pivoted to the forward part of the platform A, and has a rack-wheel, P, formed around or attached to its base.

With the teeth of the rack-wheel P engages the forward end of a rod or push-bar, Q, which passes through a guide, R, attached to the platform A, and the rear end of which is pivoted to a crank or crank-wheel, S, attached to the shaft H, so that the meat-box O may be revolved by the mechanism that operates the knives.

The knives M may be held up, when filling and emptying the box O, by a pin passing through holes in the levers K at the rear side of the post L.

T is a rod, the lower end of which is inserted in a hole in the platform A at the side of the meat-box O. The upper part of the rod T is bent into U form, so as to pass over the side or rim of the meat-box O, and to its inner end is attached a plate, U, which is made in somewhat the shape of a plow mold-board, so as to turn the meat over and bring it into position to be operated upon by the knives M.

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

The combination of the shaft H and gear-wheel G, rotated by the gear-wheel F, wheel I, provided with the pins J, and the crank-wheel S, having the push-rod Q pivoted thereto, with the curved levers K, having knives M, springs N, arranged under said levers, rack-wheel P, pivoted meat-box O, and bent rod T, having the curved plate U, the whole constructed, arranged, and operating in the manner and for the purpose set forth.

JOHN C. LLOYD.

Witnesses:

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G. NEWBURY.