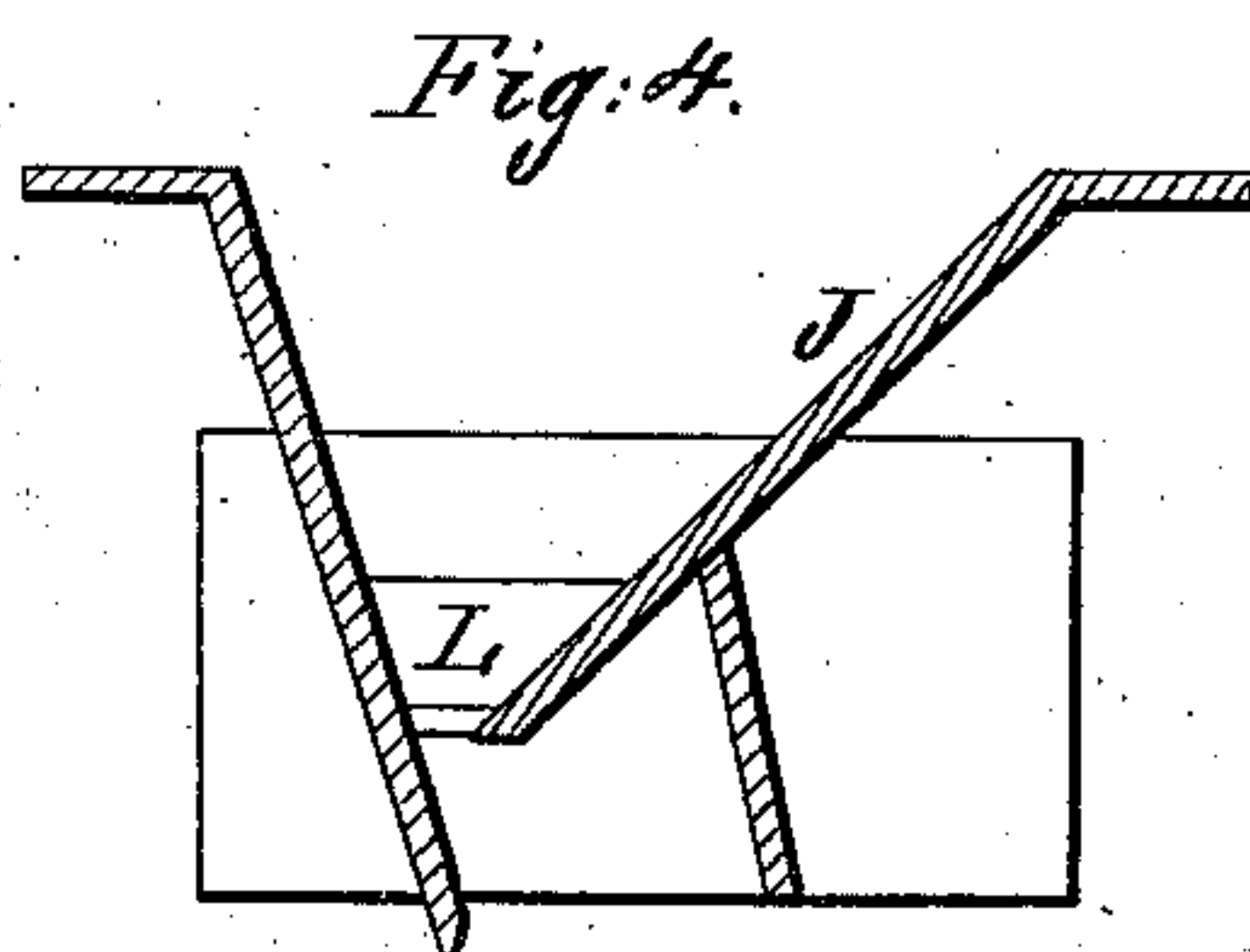
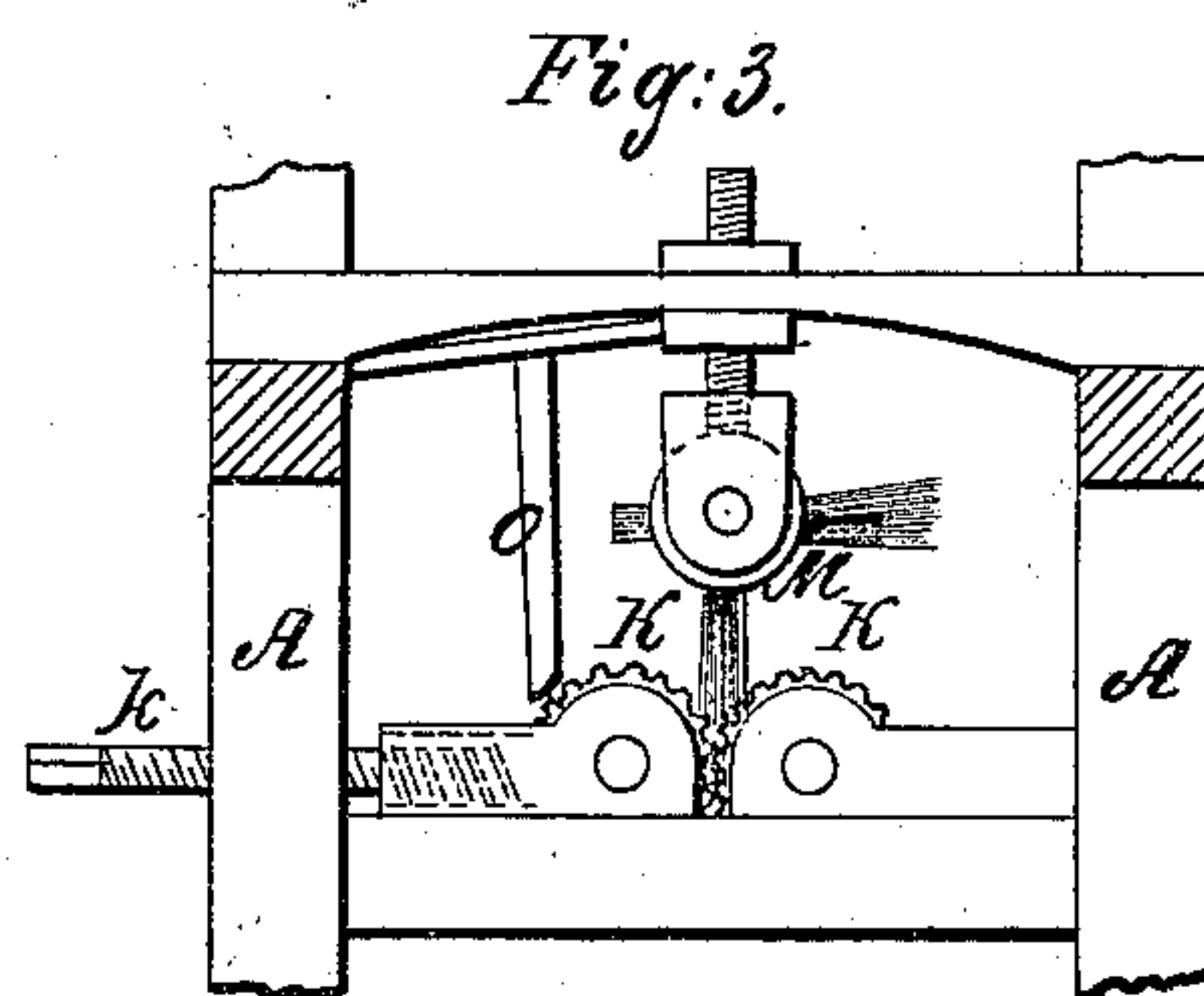
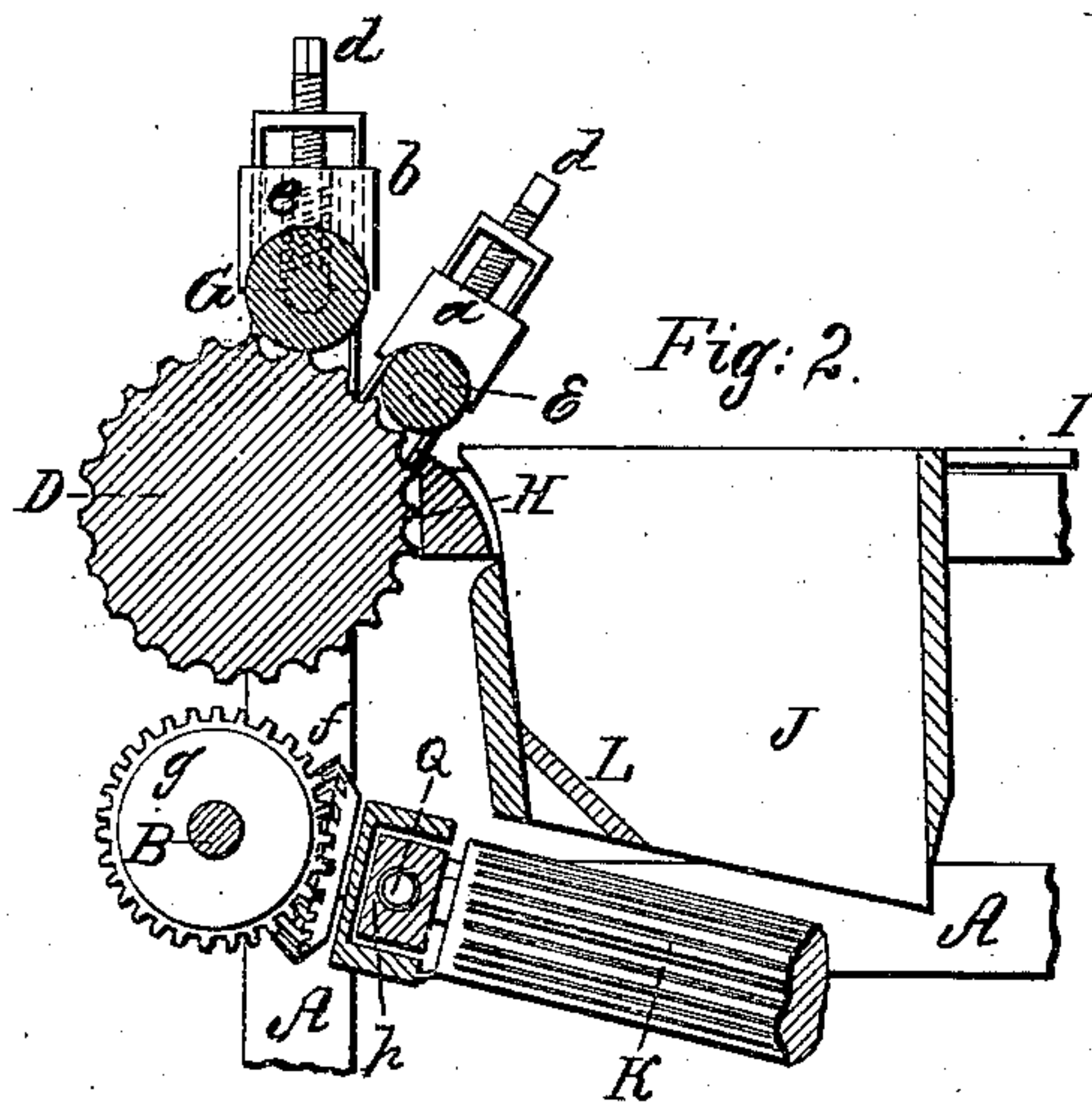
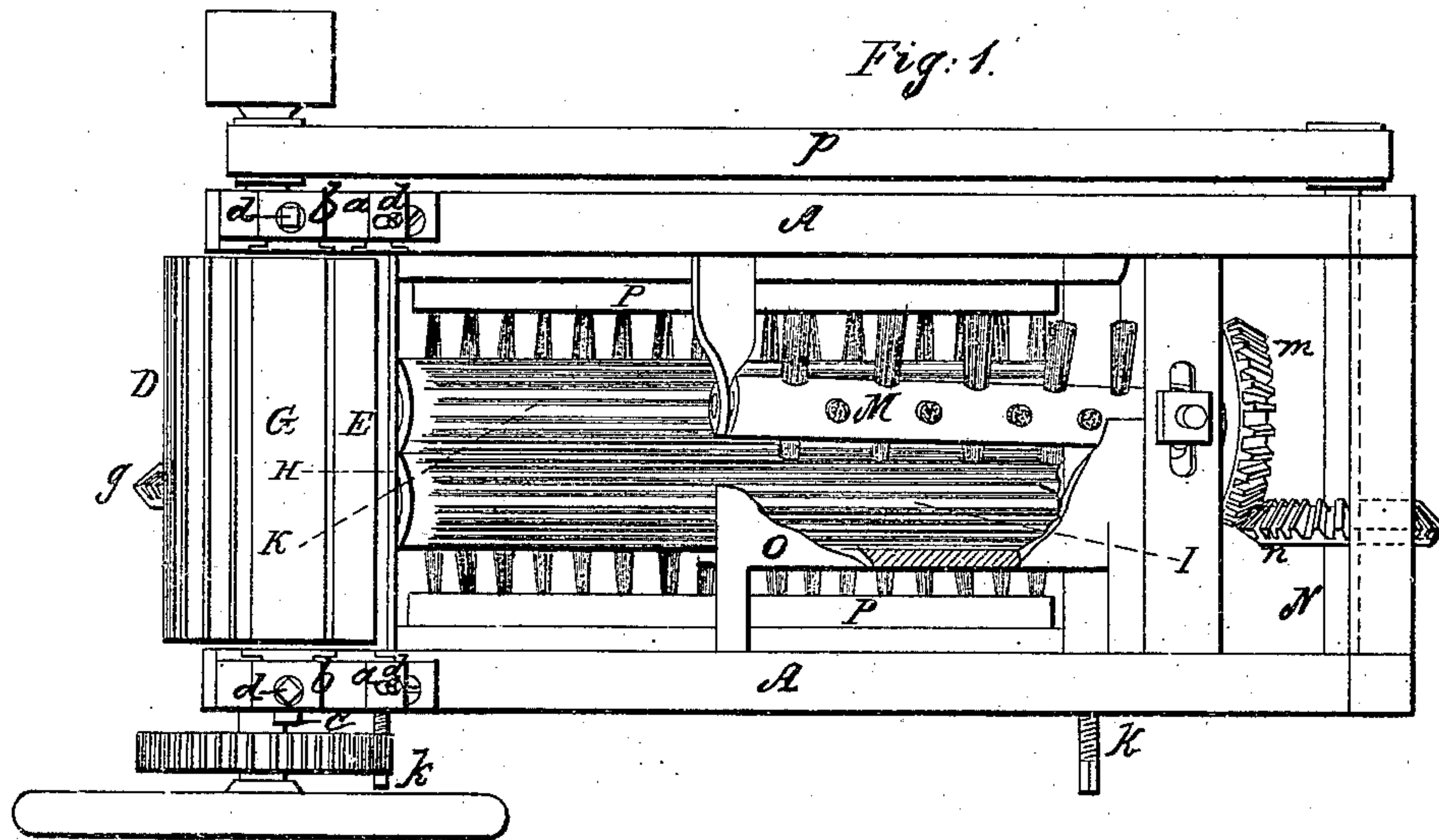


WARRINER, BAKER & SLOCUM.

Corn Husker.

No. 104,085.

Patented June 7, 1870.



Witnesses.

Harry King

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UNITED STATES PATENT OFFICE.

RALPH WARRINER, JAMES H. BAKER, AND GEORGE B. SLOCUM, OF
SARATOGA SPRINGS, NEW YORK.

IMPROVED MACHINE FOR HUSKING CORN.

Specification forming part of Letters Patent No. **104,085**, dated June 7, 1870.

To all whom it may concern:

Be it known that we, RALPH WARRINER, JAMES H. BAKER, and GEORGE B. SLOCUM, of Saratoga Springs, in the county of Saratoga, and in the State of New York, have invented certain new and useful Improvements in Corn-Huskers; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in the construction and arrangement of a corn-husker, as will be hereinafter fully set forth.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view of our machine with the top and hopper removed. Fig. 2 is a longitudinal vertical section of the rear end of the machine. Fig. 3 is a transverse vertical section of the machine, and Fig. 4 is a transverse vertical section of the hopper.

A represents the frame of our machine, on the rear side of which, in suitable journal-boxes, is placed the main driving-shaft B, connected by suitable gearing with a shaft, C, above it. On the shaft C, at the rear end of the frame, is placed a fluted roller or cylinder, D, for feeding, or rather conveying, the stalks from the machine. In journal-boxes *a a*, above and in front of the fluted roller D, is placed a plain roller, E, and a similar roller, G, is placed in journal-boxes *b b*, above and a trifle forward of the center of the fluted roller. The journal-boxes *a* and *b* are adjustable by means of the set-screws *d d*, and they are also provided each with a spring or elastic cushion, *e*, for allowing them to give to the stalk or husks while passing through them.

The object of the third or auxiliary roller, G, is to keep a steady pull on the stalk, so that when the roller E leaves its hold on the fluted roller D this third or last roller, G, will have its bearing on the stalk and draw it through the rolls. In front of the fluted roller D, and immediately below the adjustable yielding roller

E, is placed a breaking-bar, H, curved or convex on its front side, as shown in Fig. 2, for the purpose of breaking the ear from the stalk. In using a large fluted roller the ear will very often pass through and over the roll, unless a breaking-bar is used.

The upper side of the frame A is covered by a top, I, in the rear end of which, immediately in front of the breaking-bar H, is formed a hopper, J, constructed as shown in Fig. 4, so as to deliver the corn lengthwise on the fluted rollers K K underneath, and at the same time under cover, so that when the rolls catch the husk they will not throw it on end, but draw it down lengthwise on the rolls.

At the rear end of the hopper J, in the bottom, is inserted a piece, L, sloped from the top down, so that when the ear drops the butt strikes this piece and delivers the point on the rollers underneath.

The fluted rollers K K, which pull the husks off the corn, are placed on an inclined plane, the upper journal of one of said rollers being provided with a center wheel, *f*, which gears with a similar wheel, *g*, upon the main shaft B, whereby motion is communicated to the fluted rollers.

The other of the fluted rollers is placed in movable journal-boxes *h*, and adjusted or tightened by set-screws *k*, said journal-boxes being also provided with springs or elastic cushions *i*.

In front of the lower end of the hopper J, above the rollers K K, in suitable bearings, is placed a revolving eccentrically-shaped brush, M, made of whalebone or any other suitable material, for the purpose of pressing the ear on the rollers, and at the same time revolving the ear of corn, so that the fluted rollers will catch the husk and strip it from the ear. The eccentric shape of the brush is for the purpose that as the full side of the brush rises, it allows the ear of corn to work down on the rolls and pass off at the end. As the ear passes down the fluted rollers the heavy side of the brush presses the ear down on the rollers, which are revolving inwardly together, so that the edges of the flutes dig into the husks and start them, when they pass down between the rolls and are pulled off, while the brush keeps revolving

the ear, thereby presenting the whole surface of the ear to the flutes of the rollers while under pressure of the brush.

The front journal-box of the brush M can be raised or lowered at will, so as to adjust the brush to any-sized ear of corn to be husked. Upon the front journal of the brush M is a miter-wheel, *m*, which gears with a similar wheel, *n*, on a shaft, N, at the front end of the frame A. This shaft receives its motion by means of a belt, *p*, connecting a pulley on said shaft with a pulley on the cylinder-shaft C.

Over the fluted rollers K K is a shield, O, to prevent the revolving brush from brushing the ear of corn off the rollers.

On either side of the fluted rollers is placed a brush, P, of whalebone or other suitable material, for the purpose of keeping the husks or silks from winding around the rolls, and also for the purpose of keeping the rolls clean.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

The combination, in the machine herein described, of the fluted roller D, adjustable yielding rollers E G, breaking-bar H, fluted rollers K K, eccentrically-operating brush M, side brushes, P P, and hopper J, provided with tapering piece L, all constructed substantially as described, and arranged to operate as and for the purpose set forth.

In testimony that we claim the foregoing we have hereunto set our hands and seals this 18th day of March, 1870.

RALPH WARRINER. [L. S.]

JAMES H. BAKER. [L. S.]

GEORGE B. SLOCUM. [L. S.]

Witnesses:

W. B. FRENCH,

C. D. SLOCUM.