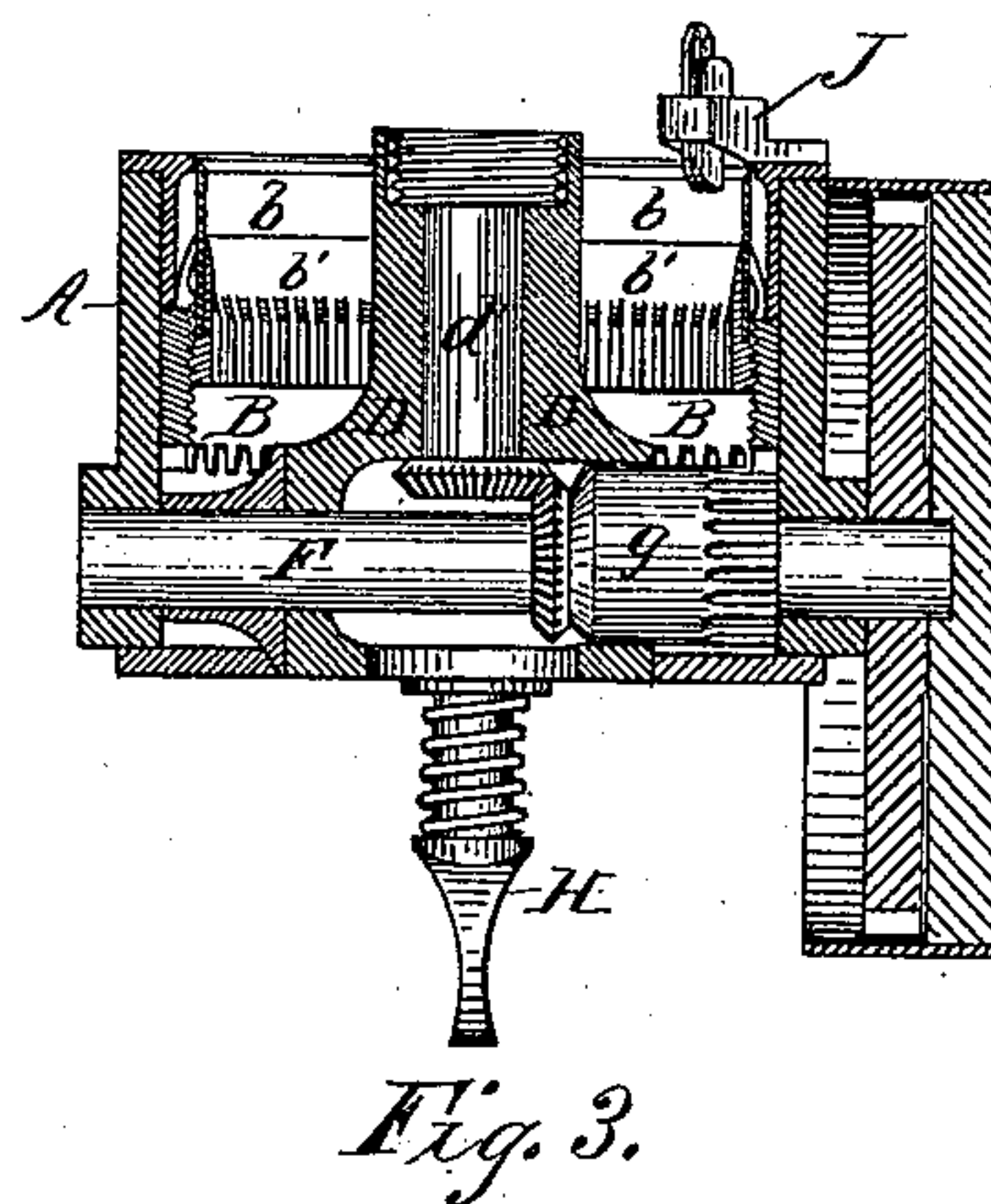
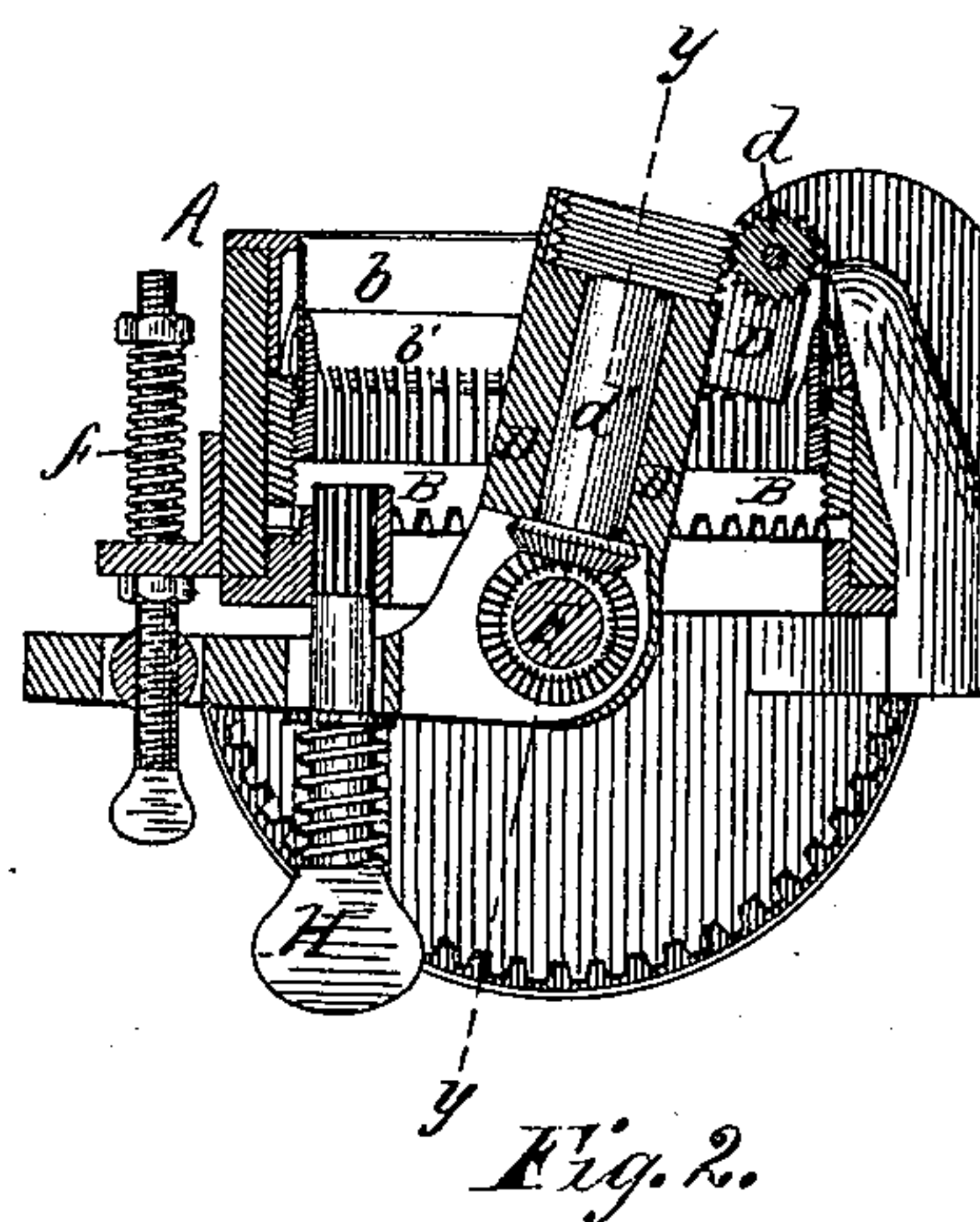
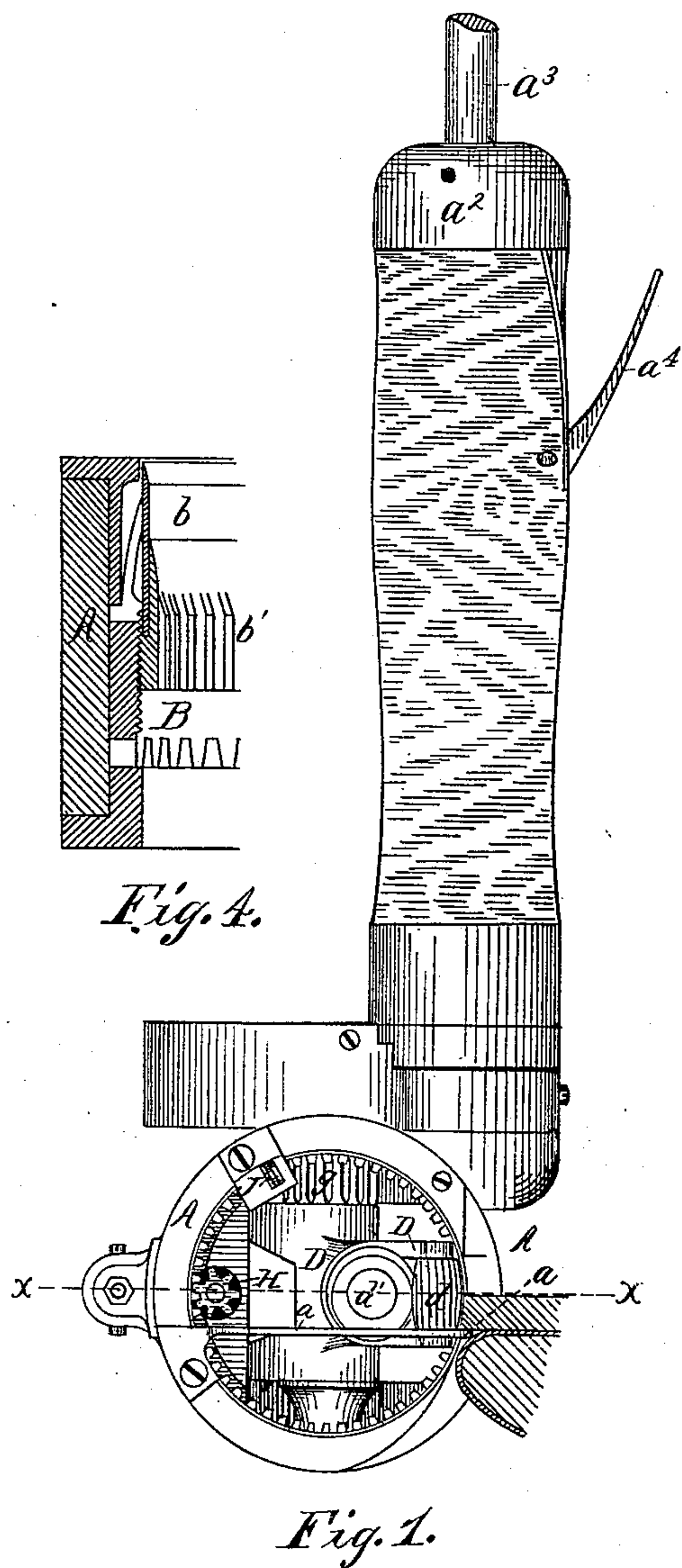


(No Model.)

J. R. MOFFITT.
SOLE EDGE TRIMMING MACHINE.

No. 254,495.

Patented Mar. 7, 1882.



Attest:
W. J. Zittel.
John R. Snow.

Inventor:
John R. Moffitt
by J. L. Maynard
his Att.

UNITED STATES PATENT OFFICE.

JOHN R. MOFFITT, OF BOSTON, MASSACHUSETTS.

SOLE-EDGE-TRIMMING MACHINE.

SPECIFICATION forming part of Letters Patent No. 254,495, dated March 7, 1882.

Application filed January 21, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOHN R. MOFFITT, of Boston, in the county of Suffolk and State of Massachusetts, have invented an Improved Machine for Trimming the Edges of Soles, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, making a part hereof, in which—

Figure 1 is a side elevation. Fig. 2 is a section on line xx of Fig. 1. Fig. 3 is a section on line yy of Fig. 2. Fig. 4 is an enlarged view, showing a portion of carrier-knife and follower.

My invention relates to that class of machines for trimming the edges of soles in which a cylindrical knife is used; and it consists mainly in the combination of the cylindrical knife and its carrier with a holder adapted to be held in the hand and carried about the edge to be trimmed.

The minor features of my invention relate to the details of construction of trimmers with a rotating cylindrical knife.

In the drawings, A is the holder or frame of the device, provided with a handle, a^2 , by which it is held by the operator, and with a suitable guide, a .

B is the knife-carrier, mounted in holder A, so that it can revolve. The knife b is supported by the carrier B and the follower b' , which screws into the carrier B, so that the knife can be moved outward by turning the follower b' .

D is the frame which carries the feed and its actuating mechanism. The feed-wheel d is mounted in the upper end of frame D, and is revolved by the motion of post d' , the teeth on wheel d meshing into the screw-thread on the upper end of post d' . Frame D is supported on shaft F, and the spring f tends to keep feed-wheel d close to the knife-edge.

The knife-carrier B is revolved by the sleeve-gear g , and so is the post d' .

The follower b' is moved from time to time, as required, by the key H.

The sharpeners J are of a well-known construction, and need no description.

The sleeve-gear g may be revolved by a

round or other belt in the well-known manner, or by the well-known flexible shaft, or in any other convenient way. The shaft a^3 passes through the handle a^2 , and is thrown in or out of gear at pleasure by the lever a^4 , which operates a clutch mechanism inside the handle.

The rand-guide a is attached to the holder A, and should be changed to suit the style of work. The distance of the working-surface of that guide from the knife-edge determines the projection of the sole-edge beyond the sole of the last.

The shoe is held on a jack, or in one hand, and the operator takes the instrument in one hand and applies the feed-wheel to the edge of the sole, with the guide a between the rand and upper, pressing the feed-wheel on the sole-edge until the guide a brings up against the upper, which is backed up by the edge of the last, and the edge of the last constitutes the pattern to which the sole is trimmed. The motion of the feed-wheel carries the instrument about the sole with a uniform steady motion, and all that the operator has to do is to see that the guide a is in proper relation with the rand and upper. The feed-wheel yields more or less as the sole-edge projects more or less, and the trimming is completed by one cut, the sole-edge after it is trimmed conforming in outline to the sole of the last. The cut is also clean, the knife-edge acting in close connection with the rand-guide, after the manner of a pair of shears, and thereby adapting the machine to even cloth or felt soles.

The knife-holder B is formed with spring-teeth, as shown in the drawings, by which the knife b is firmly clamped. The knife is a hoop of steel, formed from a tube or a clock-spring, with its ends joined.

What I claim as my invention is—

1. The improved edge-trimmer, consisting of the holder A, provided with a handle, the knife b and its carrier B, and mechanism, substantially such as is described, for revolving the carrier B, the whole device adapted to be moved about the sole-edge, substantially as described.

2. In combination, the cylindrical knife b , carrier B, follower b' , and holder A, the fol-

lower screwing into the carrier and the carrier mounted in the holder, as described.

3. In combination, the cylindrical knife *b*, carrier B, holder A, feed-frame D, feed-wheel
5 *d*, shaft F, and spring *f*, substantially as described.

4. In combination, holder A, carrier B,

knife *b*, frame D, post *d'*, feed-wheel *f*, and sleeve-gear *g*, substantially as described.

JOHN R. MOFFITT.

Witnesses:

WM. ZITTEL,
JOHN R. SNOW.