

(No Model.)

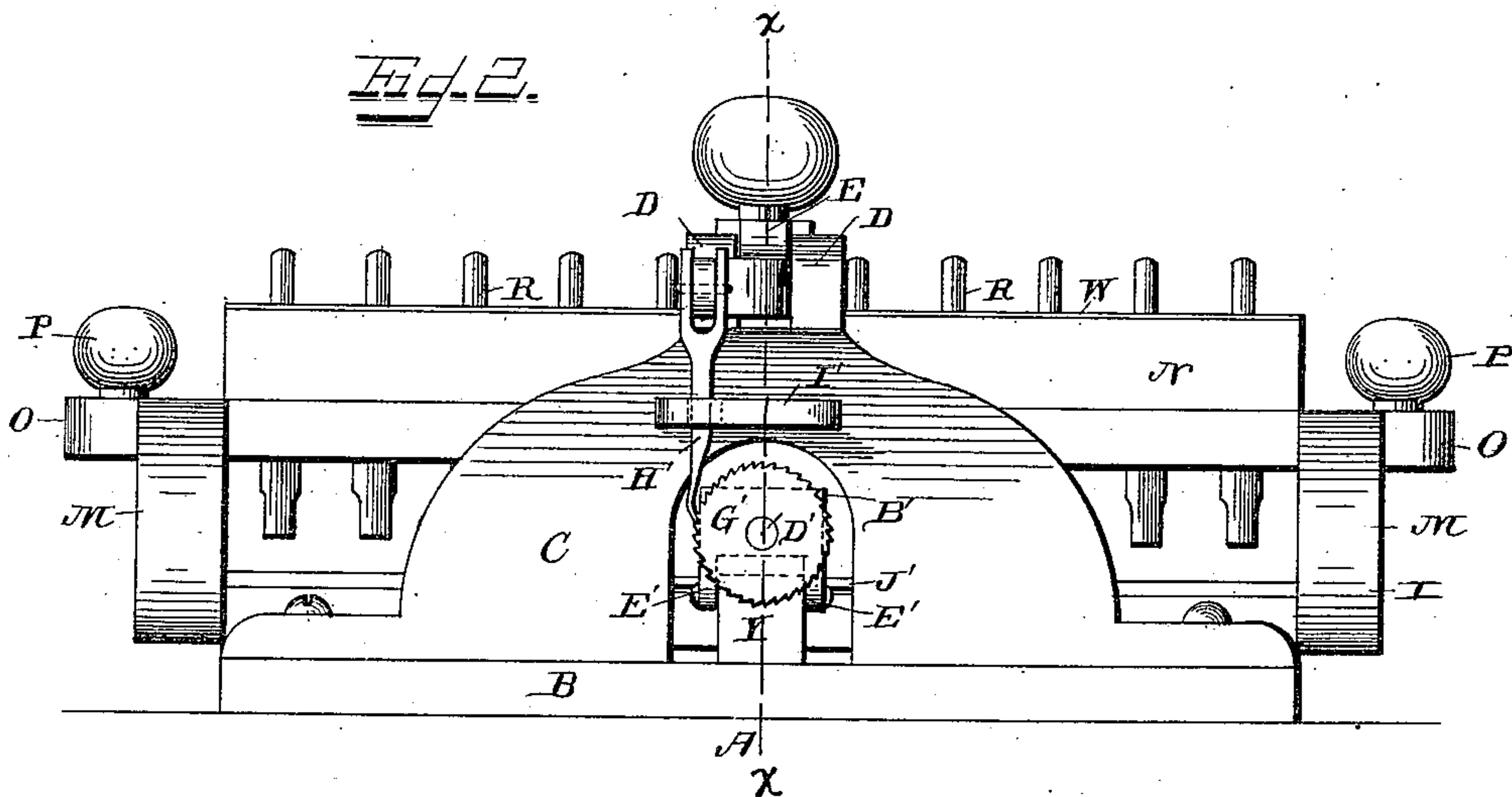
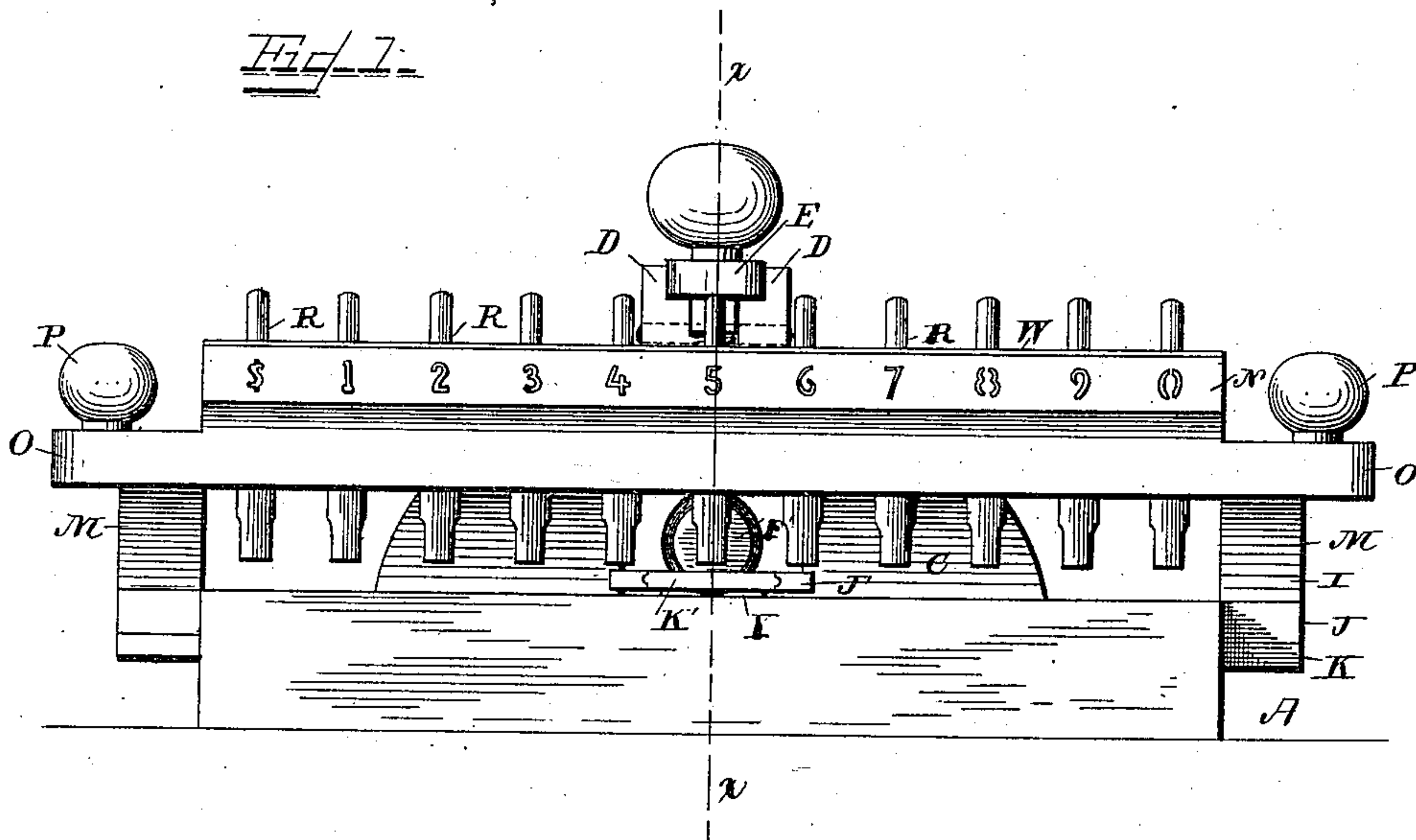
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J. M. MONTGOMERY, Jr.

CHECK PUNCHING MACHINE.

No. 334,264.

Patented Jan. 12, 1886.



WITNESSES
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3 Sheets—Sheet 2.

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Fig. 3.

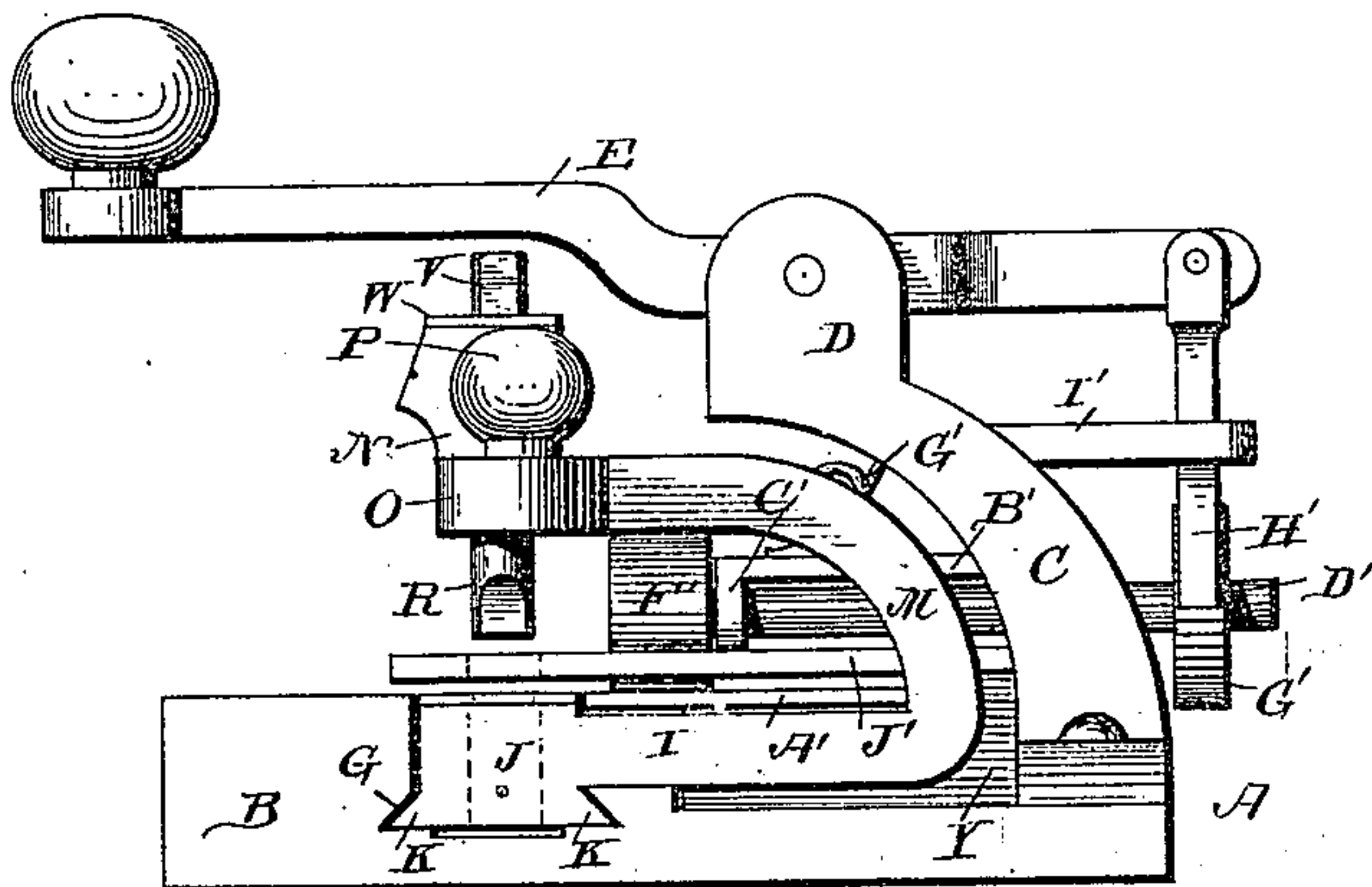
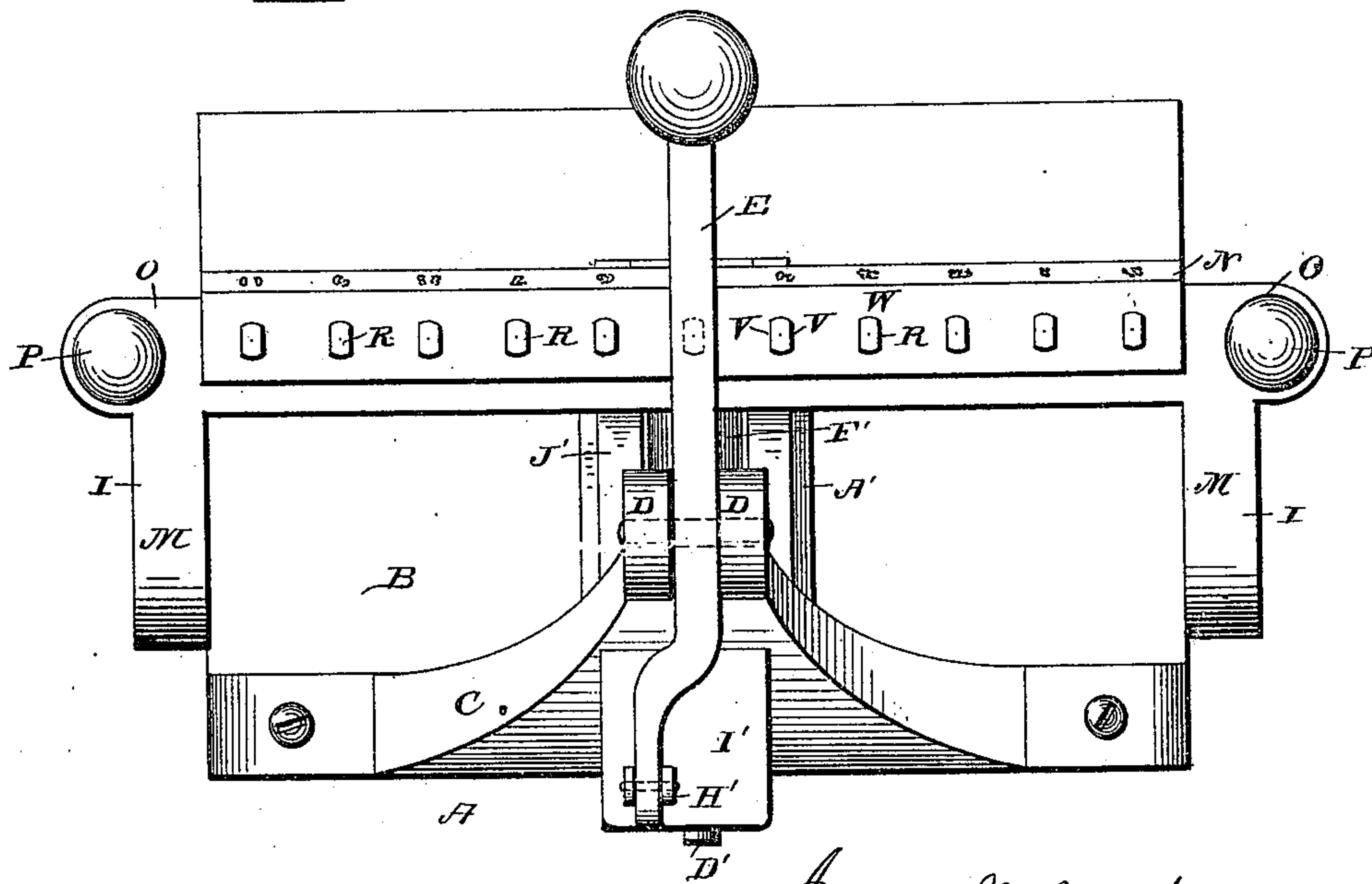


Fig. 4.



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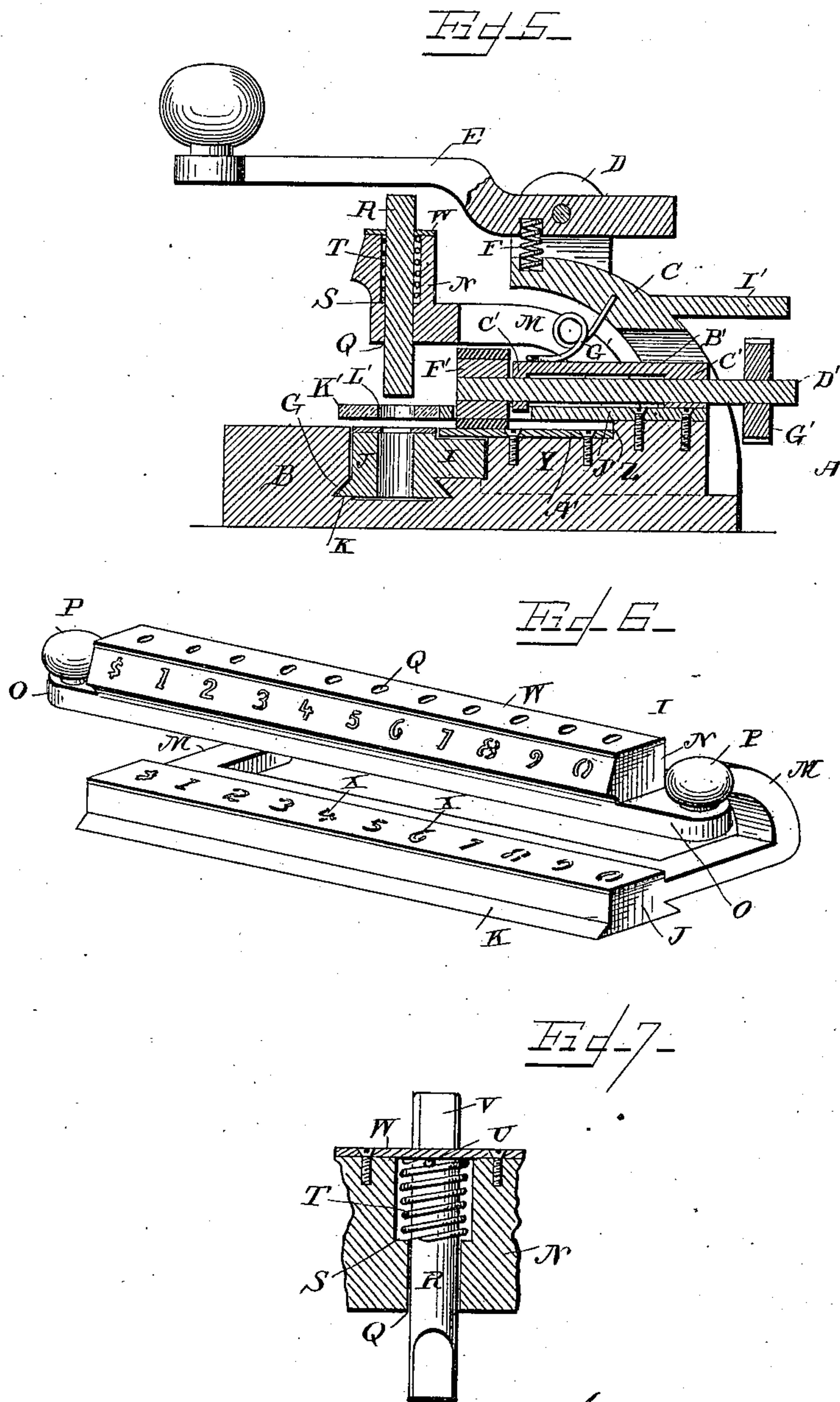
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UNITED STATES PATENT OFFICE.

JAMES M. MONTGOMERY, JR., OF COLUMBUS, OHIO.

CHECK-PUNCHING MACHINE.

SPECIFICATION forming part of Letters Patent No. 334,264, dated January 12, 1886.

Application filed July 8, 1885. Serial No. 170,978. (No model.)

To all whom it may concern:

Be it known that I, JAMES M. MONTGOMERY, Jr., a citizen of the United States, and resident of Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Check-Punching Machines; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a front elevation of my improved check-punching machine. Fig. 2 is a rear elevation of the same. Fig. 3 is an end view. Fig. 4 is a top view. Fig. 5 is a longitudinal vertical sectional view taken centrally through the machine on the line $x x$ in Figs. 1 and 2. Fig. 6 is a detail view of the punch or cutter carrying frame. Fig. 7 is a detail sectional view of the latter, taken through one of the punches or cutters.

The same letters refer to the same parts in all the figures.

This invention relates to that class of devices which are known as "check-punching machines," and which are employed for the purpose of punching out figures in checks designating the amounts for which they have been drawn, so as to prevent the raising of or otherwise tampering with the check.

The invention has for its object to provide a device of this class which shall possess superior advantages in point of simplicity, durability, and general efficiency.

With these ends in view it consists in the improved construction, arrangement, and combination of parts, which will be hereinafter fully described, and particularly pointed out in the claims.

In the drawings hereto annexed, A designates the frame of the machine, which is composed of the base B and rear piece, C, which latter is curved in a forward direction, as shown, and provided on its upper side with lugs D D, forming bearings for the operating-lever E, the forward end of which is held automatically in a raised position by means of a suitably-arranged spring, F. The base B of the frame of the machine is provided with a dovetailed groove, G, affording bearings for a transversely-sliding frame, I, which carries the punches or cutters, and which comprises a

base, J, constructed with a dovetailed strip, K, to correspond with the groove G of the base B, and having suitable arms or brackets, M, supporting the upper cross-piece, N, which forms the head of the said sliding frame, and which is constructed with laterally-extending lugs O O, having handles P P, by means of which the said sliding frame may be conveniently manipulated by either hand of the operator. The head or upper cross-piece, N, of the transversely-sliding frame is provided with a series of vertical perforations, Q, for the vertically-sliding punches R, which are adapted to cut the numbers from 1 to 0 and the dollar-mark from the check or other paper which may be placed in the machine to be operated upon. The perforations Q have shoulders S, on which rest the springs T, which are coiled around the upper ends of the cutter-stems, and which abut against transverse pins U in the said stems, which latter are thus automatically forced in an upward direction. The sides of the upper ends of the punch or cutter stems are flattened, as shown at V, so as to prevent them from turning in the correspondingly-shaped openings in the cap-plate W, which latter serves to retain the several cutters or punches in their respective position. The base J of the transversely-sliding frame I is provided with dies X, corresponding and registering with the several cutters or punches.

Y designates a block, which is cast upon or otherwise suitably attached centrally to the rear portion of the base B of the frame A of the machine. The said block is constructed with a step or shoulder, Z, to the lower portion of which is attached the feed-plate A', which serves to support the check while it is being operated upon, and which should be smooth, so as to enable the paper to slide easily over it and on an exact level with the die-base J.

B' designates a plate or frame, the front and rear ends of which are provided with downwardly-extending lugs C' C', affording bearings for a longitudinal shaft, D', and the rear end of which is provided at both sides with additional downwardly-extending lugs, E' E', whereby the said plate or frame is pivotally secured to the sides of the block Y. The front end of the shaft D' carries a roller, F', which may be either constructed entirely of or provided with a band or tire of rubber, so as to take a more certain and effectual hold of the

paper which may be placed upon the feed-plate of the machine, on which the said roller normally rests, and against which it is, in addition to its own weight, forced by the pressure of a suitable spring, G', attached to the main frame of the machine and bearing against the upper side of the plate or frame B'. The rear end of the shaft D' carries a ratchet-wheel, G', adapted to be engaged and operated by means of a pawl, H', which is hinged or pivoted to the rear end of the operating-lever E, and which passes through a suitable guide, I', which is cast upon or otherwise suitably attached to the rear side of the main frame of the machine.

To the upper side or step of the block Y is attached a forwardly-extending stripper-plate, J', which projects under the punches carried by the transversely-sliding frame, and is provided at its front end with a glass slide, K', through which the position of the check may be readily ascertained. The said glass slide is provided with a perforation, L', for the passage of the punch which it is at the time desired to use.

The operation and advantages of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed.

In order to place a check or other paper in the machine to be operated upon, the roller-carrying frame is slightly tilted, so as to raise the roller at the front end of the same and enable the check to be inserted thereunder and slid to its proper place. The frame is then released, and the transversely-sliding punch-carrying frame is grasped by one or both of its handles and moved until the punch which it is desired to use comes directly above the perforation L' in the glass slide K'. The handle of the main operating-lever is then depressed, causing the said lever to strike the punch, forcing it in a downward direction and causing it to punch the desired figure out of the check. When the lever is released, its forward end is forced in an upward direction by the spring F, and the check, in case it should adhere to the cutter, will be stripped from it by the stripper-plate J'. At the same time the pawl at the rear end of the operating-lever will engage the ratchet-wheel G', thereby partially rotating the shaft D', and causing the feed-roller at the front end of said shaft, which bears against the face of the check, to slide or move the latter into position for the next figure to be punched out. The punch-carrying frame is then again moved into position and the operation repeated until the desired figures have been punched out, when the check may be readily slid out of the machine.

I would have it understood that in the practical manufacture of this invention I do not limit myself to the precise construction of details herein shown and described, but reserve to myself the privilege to all modifications which may be resorted to without departing from the spirit of my invention.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

1. In a check-punching machine, the combination of the main frame, the transversely-sliding frame carrying a series of vertically-sliding punches or cutters, a block attached centrally to the rear side of the base of the main frame, and a feed or supporting plate attached to the said block, on a level with the die-plate of the transversely-sliding frame, substantially as and for the purpose herein set forth.

2. In a check-punching machine, the combination of the main frame, the transversely-sliding frame carrying a series of vertically-sliding punches or cutters, a block secured centrally to the base of the main frame, a feed or supporting plate secured to the latter, and a tilting frame pivoted to the sides of said block and having a longitudinal shaft carrying a pressure-roller, substantially as and for the purpose herein set forth.

3. In a check-punching machine, the combination of the main frame, the transversely-sliding frame carrying a series of vertically-sliding punches or cutters, a block secured centrally to the rear end of the base of the main frame and having a step or shoulder, a stripper-plate secured to the top of the said block and having a slot for the passage of a pressure-roller and a glass slide provided with a perforation for the passage of the punching-cutters, a supporting-plate secured to the lower step of the said block, and a tilting frame pivoted to the sides of the said block and having a longitudinal shaft carrying a pressure-roller at its front end, substantially as and for the purpose set forth.

4. In a check-punching machine, the combination of the main frame, a transversely-sliding frame carrying a series of vertically-sliding cutting-punches and corresponding dies, an operating-lever pivoted to the main frame, a spring arranged to force the front end of said lever in an upward direction, a shouldered block secured to the rear end of the base of the main frame and having a supporting-plate and a stripper-plate, the latter provided with a perforated glass slide, a tilting frame pivoted to the said block and having a longitudinal shaft provided with a pressure-roller at its front end and with a ratchet-wheel at its rear end, a spring arranged to force the said tilting frame downwardly, and a pawl pivoted to the rear end of the operating-lever and adapted to engage the ratchet-wheel at the rear end of the feed-roller shaft, substantially as and for the purpose herein set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JAMES M. MONTGOMERY, JR.

Witnesses:

B. WOODBURY,

GEORGE D. WYLIE.