

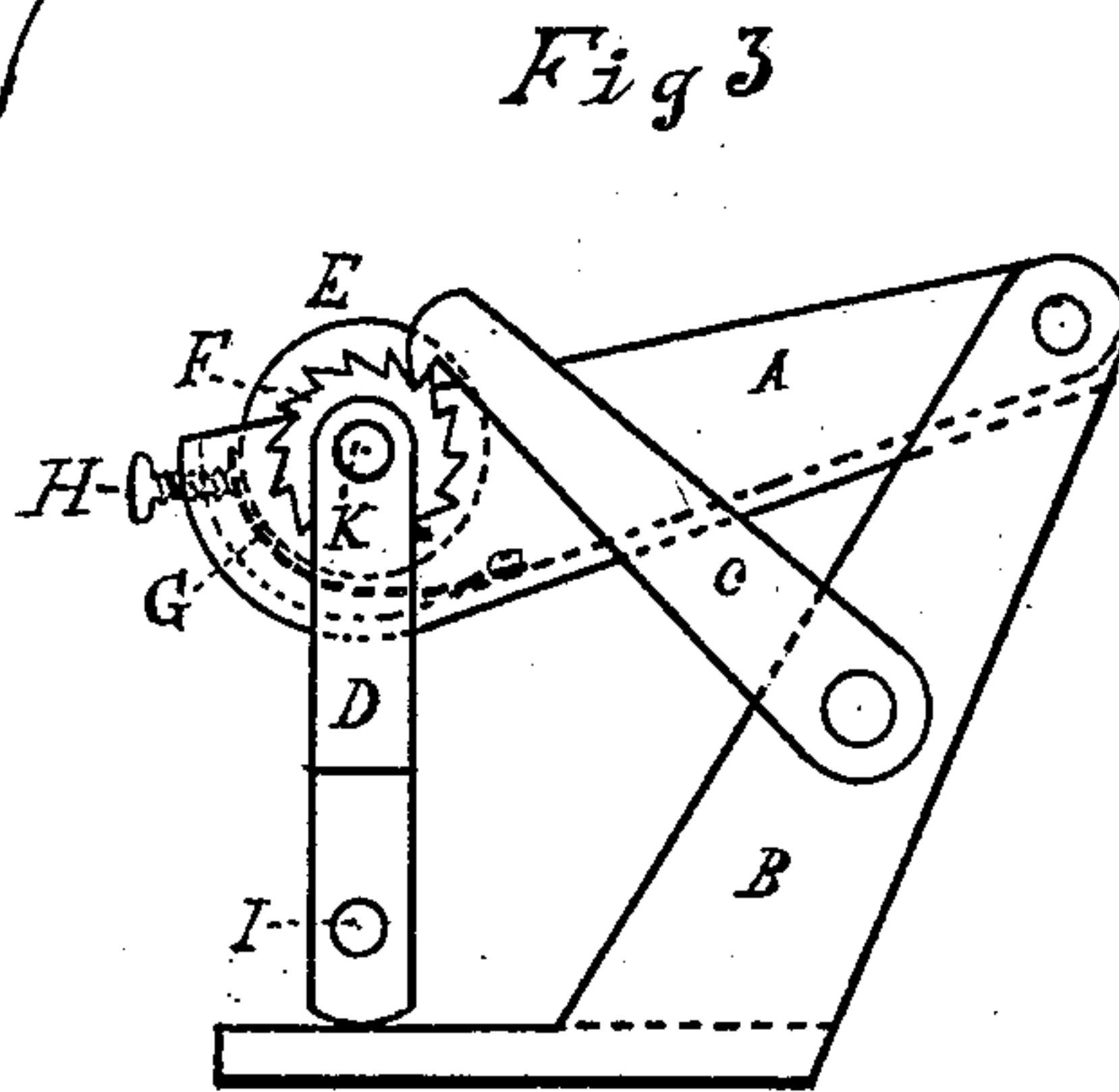
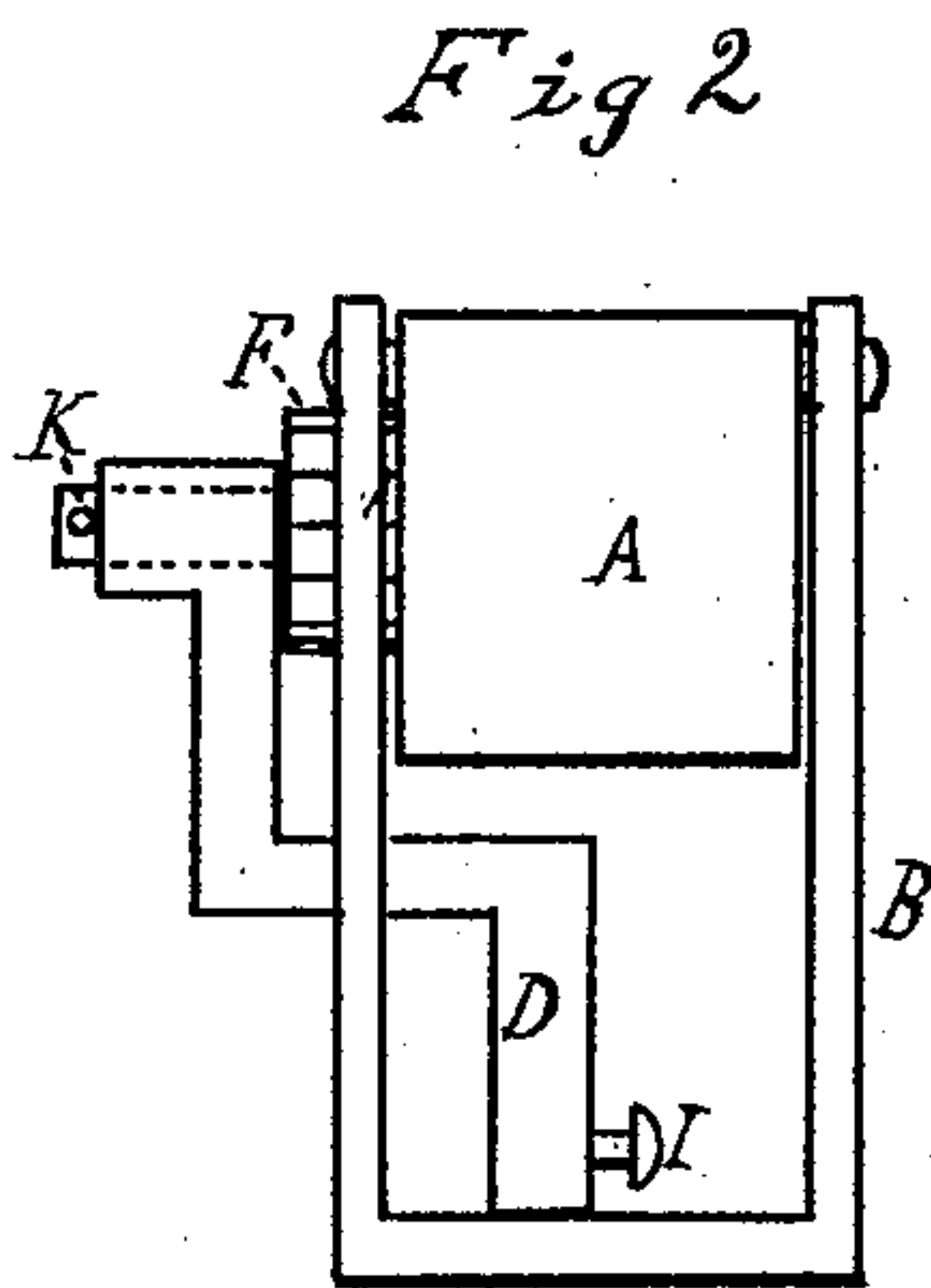
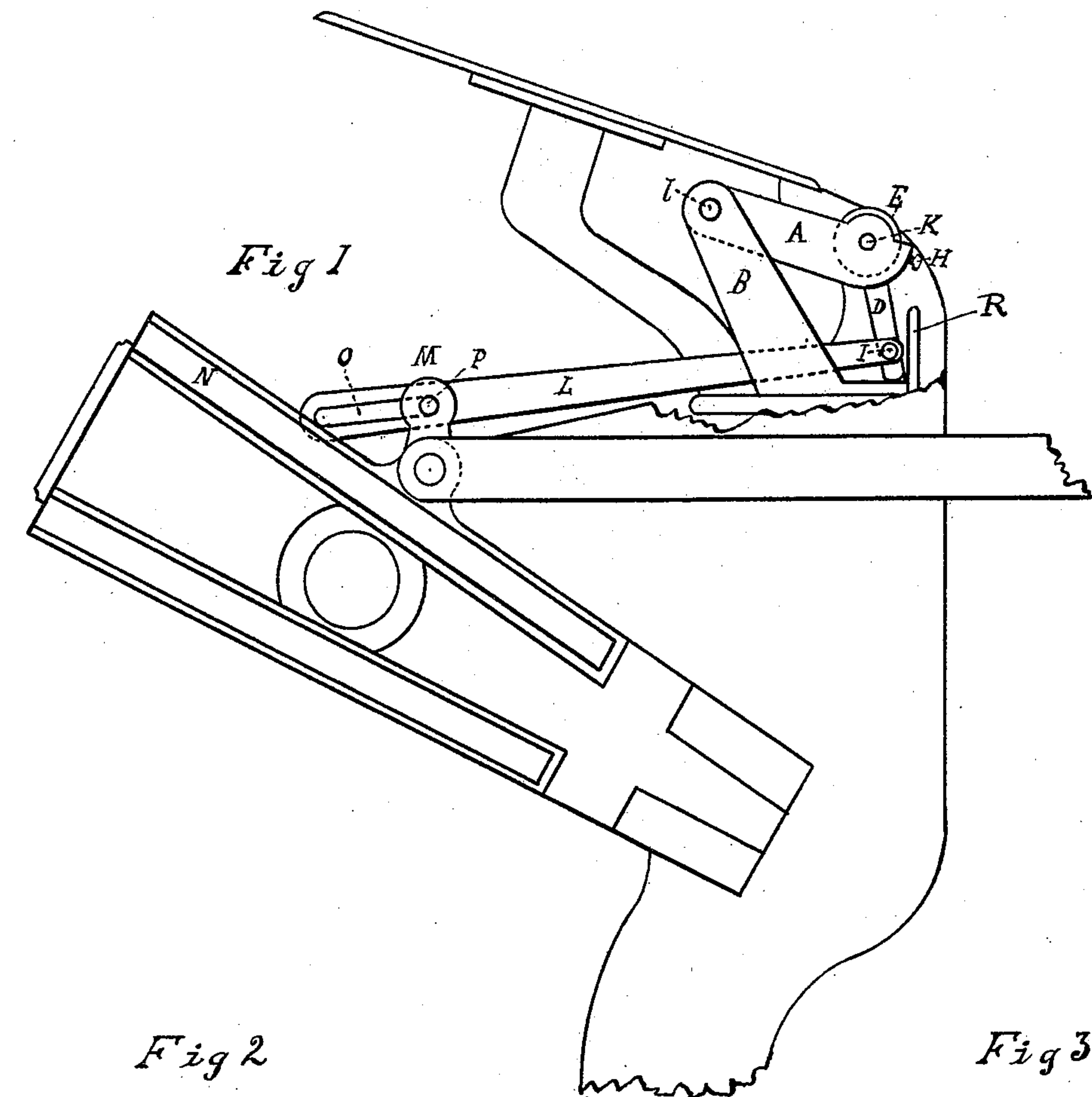
(No Model.)

H. SWAIN.

INK FOUNTAIN FOR PRINTING PRESSES.

No. 390,994.

Patented Oct. 9, 1888.



Witnesses:
Herrie Marshall
Arthur H. Kelly

Inventor:
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attys.

UNITED STATES PATENT OFFICE.

HADWEN SWAIN, OF SAN FRANCISCO, CALIFORNIA.

INK-FOUNTAIN FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 390,994, dated October 9, 1888.

Application filed November 2, 1887. Serial No. 251,225. (No model.)

To all whom it may concern:

Be it known that I, HADWEN SWAIN, a citizen of the United States, residing at San Francisco, in the county of San Francisco, State of California, have invented certain new and useful Improvements in Ink-Fountains for Printing-Presses, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to an ink-fountain suitable for job-presses, and belongs to the class which are placed in front of the ink plate or disk.

15 In the drawings, Figure 1 shows the attachment to the press. Fig. 2 is a back elevation. Fig. 3 is the side elevation.

20 The ink-fountain A is pivoted to the bracket B, and its forward end is supported by arm D, resting on the flat base of the bracket, and the fountain A is free to rise or fall. Through the ink-roll E the shaft K passes. On the end of shaft K is arm D, the lower end of which rests against the flat bottom of bracket B. The arm D is so hung that when it is pulled backward it allows the front end of fountain A to fall. Pivoted to the lower end of arm D by the pin I is the slotted arm L. In the slot of the latter the pin P works. This pin is fastened to the upper part of the lug of the side saddle, N, and the saddle, during its backward and forward motion, causes pin P to come in contact with each end of the slot in slotted arm L, which is of a suitable length to give a slight front and back motion to said arm. This in turn moves arm D and causes fountain A to rise when the ink-rollers are going up and to fall clear to allow them to pass down. A lug, R, projecting from the side face of the bracket B, engages the arm D when moved forward to prevent the same being pushed too far or slightly beyond a perpendicular line and hold the fountain in position, so that in the downward pressure, as when the ink-rollers are over the roll E and the pin P is at the other end of the slot O, its foot will be held from

slipping to the left, or in the opposite direction. The roll E is moved a small part of a circle at each stroke, so as to feed ink, by means of the ratchet-wheel F and pawl C, which is pivoted to bracket B. The pawl being stationary at bracket B, as A is forced upward by arm D the hook on C catches into a tooth and pulls the wheel around, dropping back into another when fountain A falls. A suitable knife, G, operated by screws H, regulates the flow of ink.

Having thus described my invention, I claim—

1. A fountain located in front of the ink-plate and supported in the bracket B, in combination with the raising and lowering arm D, mounted on its shaft and with its lower end resting upon and supported by the foot of the bracket, substantially as described. 60

2. An ink-fountain, A, having the ratchet-wheel mounted upon its shaft, said fountain being supported in the bracket B, the raising and lowering arm D, also mounted upon the fountain shaft, the lever I for moving the arm, and the pawl mounted on the bracket to engage the ratchet-wheel and revolve the roller in the movement of the arm, substantially as described. 65 70

3. The combination of the fountain, the arm D, and the slotted lever L, connected to the arm and the side saddle of the press, substantially as described. 75

4. The combination of the rising and falling fountain A, arranged in front of the ink-plate, the arm D, mounted upon its shaft, and the slotted lever L, connected with the pin P on the side saddle, and from which motion is imparted to the lever, substantially as described. 80

In testimony whereof I affix my signature in presence of two witnesses.

HADWEN SWAIN.

Witnesses:

JOHN J. PALMER,

ARTHUR W. OXLEY.