

C. Potter, Jr.
Printing Press.

N^o 617.
31621

Patented Mar. 5. 1861.

Fig. 1.

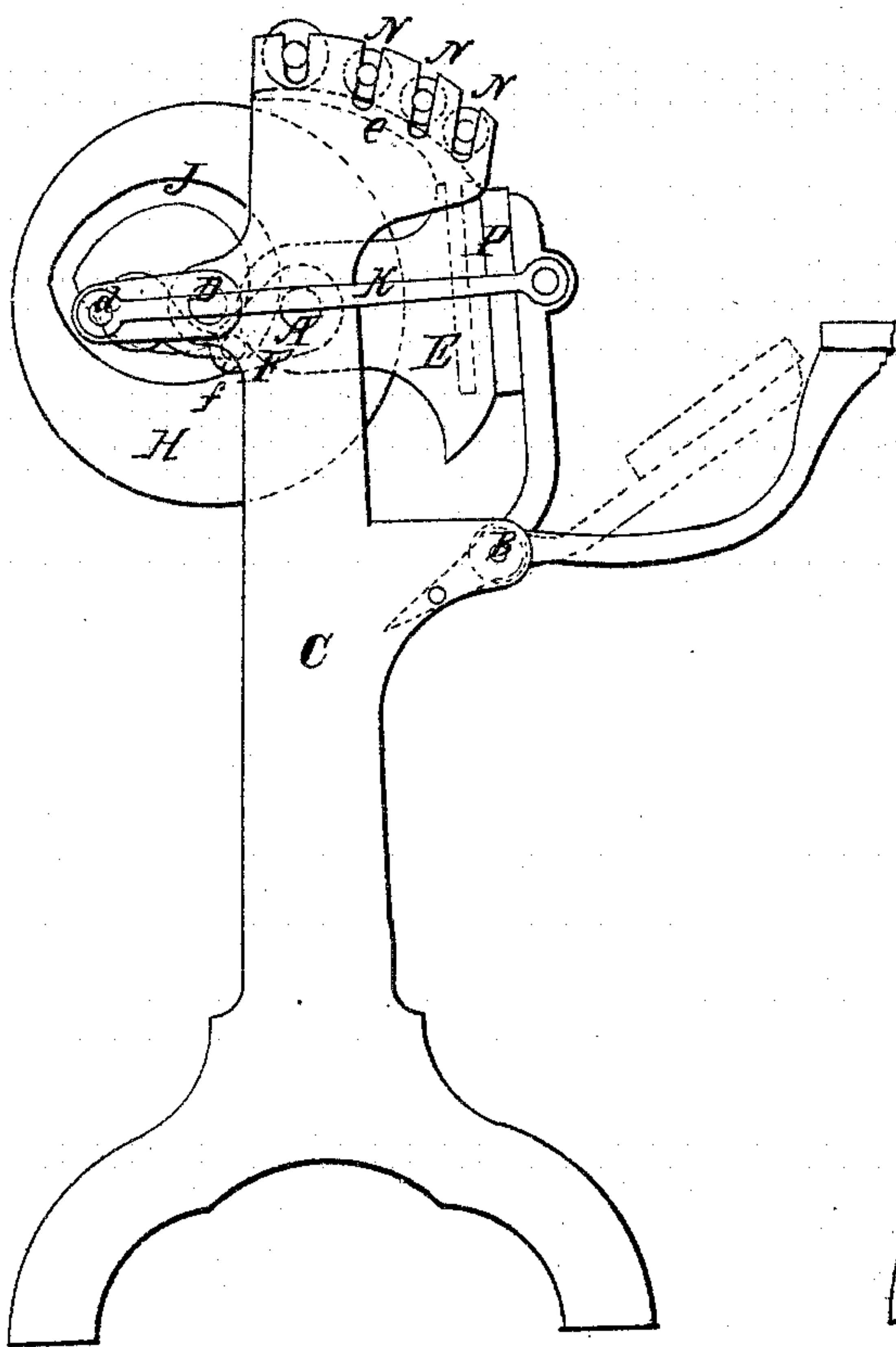
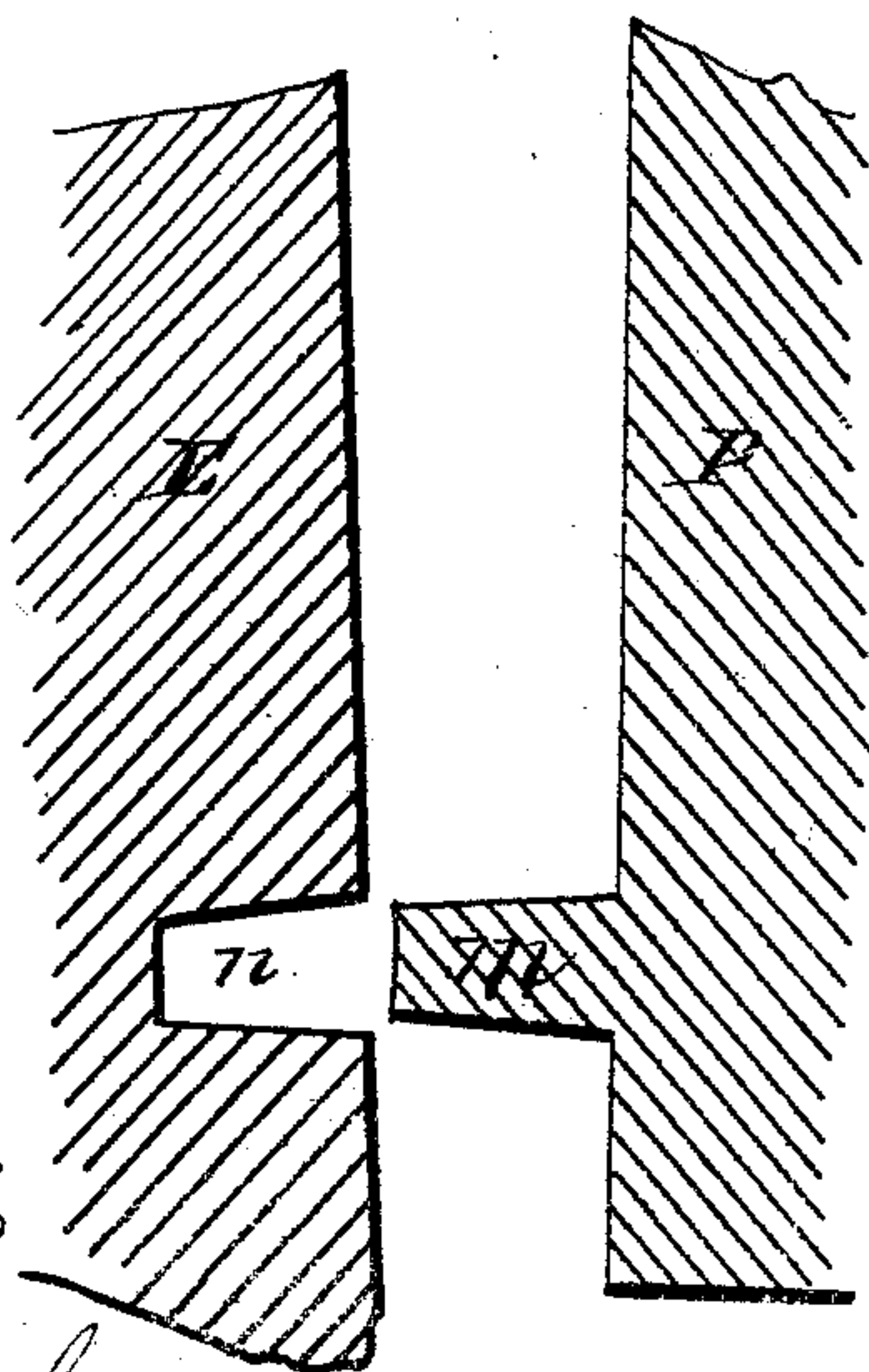
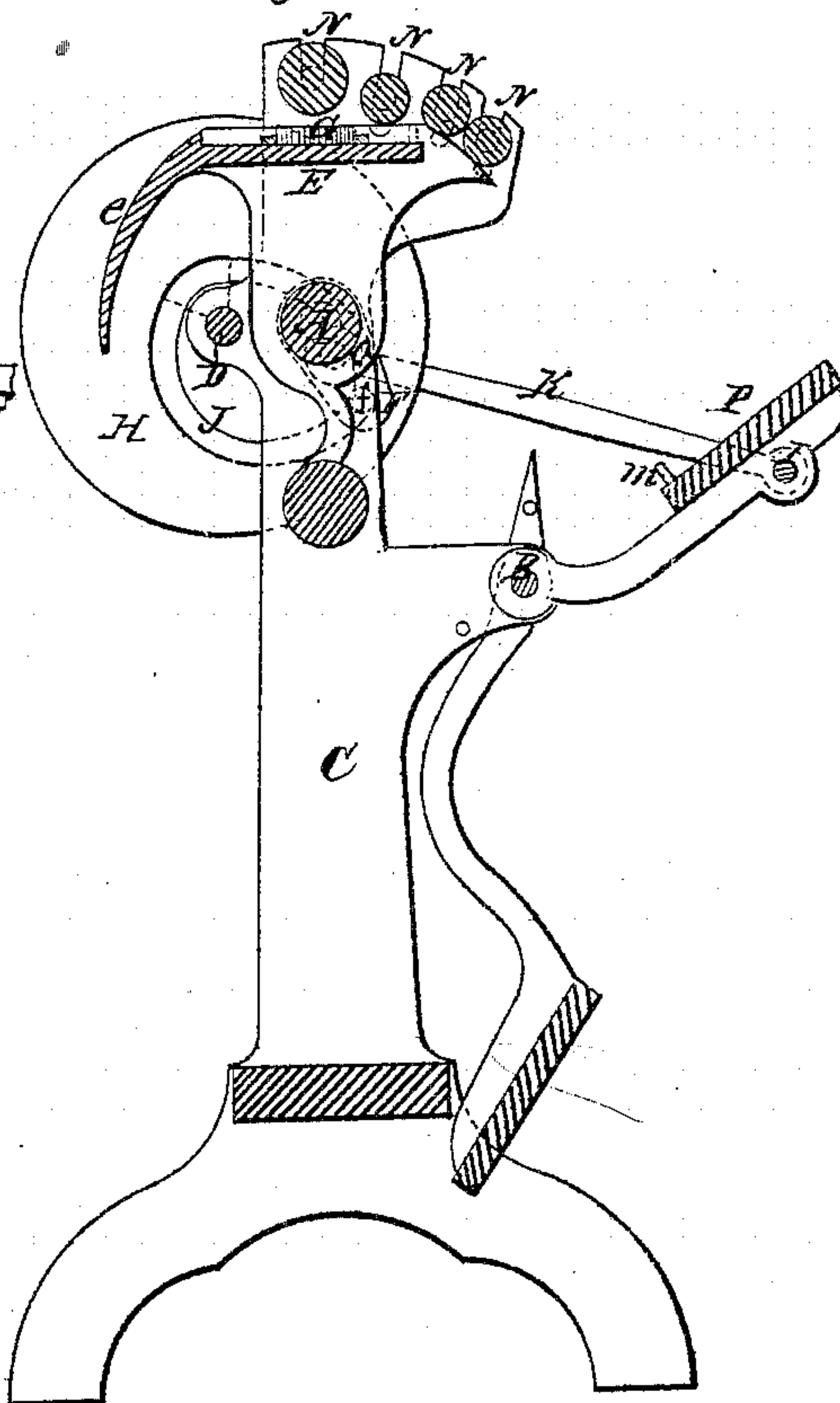


Fig. 2.



Witnesses.

L. H. Babcock

Wm. B. Smith

Inventor:
C. Potter, Jr.

UNITED STATES PATENT OFFICE.

CHARLES POTTER, JR., OF WESTERLY, RHODE ISLAND.

PRINTING-PRESS.

Specification of Letters Patent No. 31,621, dated March 5, 1861.

To all whom it may concern:

Be it known that I, CHARLES POTTER, JR., of Westerly, in the county of Washington and State of Rhode Island, have invented a certain new and Improved Printing-Press; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 is a side elevation with the parts in position for giving the impression. Fig. 2 is a vertical section with the parts in position for receiving the sheet, and Fig. 3 is an enlarged section of a portion.

Similar letters of reference indicate like parts in all the drawings.

My invention relates to that class of presses which are operated by turning a shaft, and is of a more simple construction than ordinary presses of that character. Its nature consists in the employment of a peculiar guide and socket in combination with the other parts, to secure an accurate register and prevent a slurring of the impression.

To enable others skilled in the art to make and use my invention I will proceed to describe its construction and operation by the aid of the drawings.

A and B are shafts mounted in a suitable frame C, with liberty to oscillate. D is a shaft mounted in the same frame and adapted to be turned by a crank or other power.

On A is mounted a bed E, and curved distributing table *e*, the outline of which is very clearly shown in the drawings. The form of type is denoted by G. An arm F is mounted on the end of A, as represented, carrying a roller *f* at its extremity.

On the shaft B is mounted the plate wheel H, with a cam shaped groove J in its surface, adapted to receive the roller *f* and as D revolves the cam J acts upon E in such a manner as to cause E to vibrate into the position shown in Fig. 1 where it is held motionless during a sixth or some other portion of a revolution of D, the cam groove J being such as to give this motion.

On each end of D are crank pins *d*, *d*; these are connected by rods K to corresponding pins L on the sides of the platen P, which is hung so as to swing or vibrate on

the shaft B. The rods, K, are of such length and the crank pins, *d*, are so located, that the bed, E, is brought into contact with the face of the form, G, as represented, at each revolution of D.

On the side of P is fixed one or more cylindrical projections with slightly conical or tapering points, as shown by *m*. Corresponding holes *n* are made in the edges of the face of E exterior to the form. The office of this device is to guide the platen H in its motion when very near the form G and thus to prevent slurring the work. The point of *m* is slightly tapered to aid it in entering the hole in E.

The inking rollers N N are mounted in the frame C in the manner represented so that they may rise and sink at pleasure in the slots or deep notches which guide them. They receive ink from the distributing table *e* to which it is supplied in any convenient manner, and ink the form G as it passes under them in its passage to and from the point of impression.

In operating my press the paper is placed on the face of the platen P and after being pressed into contact with the inked types of G by the action of J and K and carried back as shown by the dotted lines it is removed and a new sheet supplied by the attendant.

I am aware that beds carrying a form have been caused to oscillate or rock in printing presses, and that platens operated in the same manner as in my invention are in common use but I am not aware that such devices have ever before been combined with a view to operate in the manner herein shown, neither am I aware that in any such press has the bed been caused to remain motionless while the platen performed the last part of its motion in which it is in contact with or near the type, nor that a dowel guide has been used in such combination to overcome the unsteadiness consequent upon E being controlled by a cam, which is liable to be more or less untrue.

I do not claim any of the parts or devices separately, but

Having now fully described my invention what I claim as new and desire to secure by Letters Patent is—

The combination of the oscillating platen and bed connected and operated as described,

when the former is provided with a pin and
the latter with a corresponding socket oper-
ating together substantially in the manner
shown for the purpose of securing an accu-
5 rate register and preventing slur as de-
scribed.

In testimony whereof I have hereunto set

my name in the presence of two subscribing
witnesses.

C. POTTER, JR.

Witnesses:

G. H. BABCOCK,

WM. B. SMITH.