

No. 129,084.

Fig. 1.

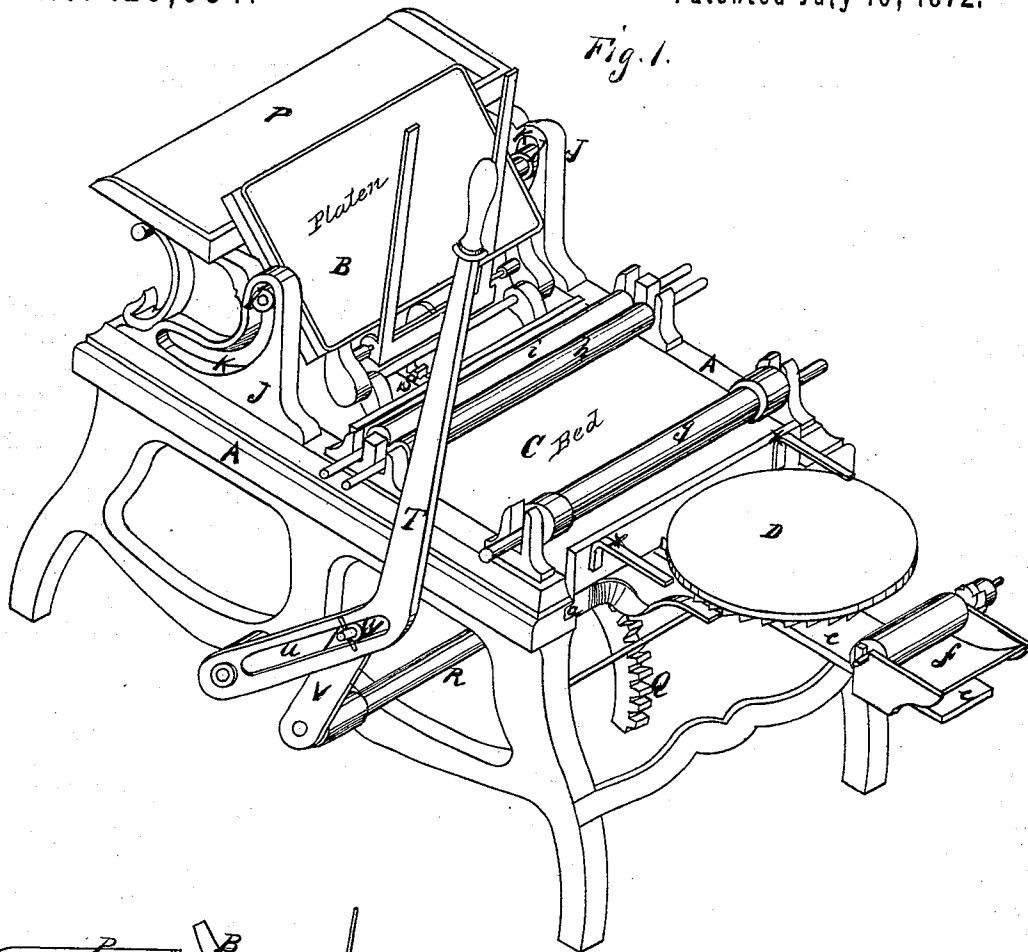
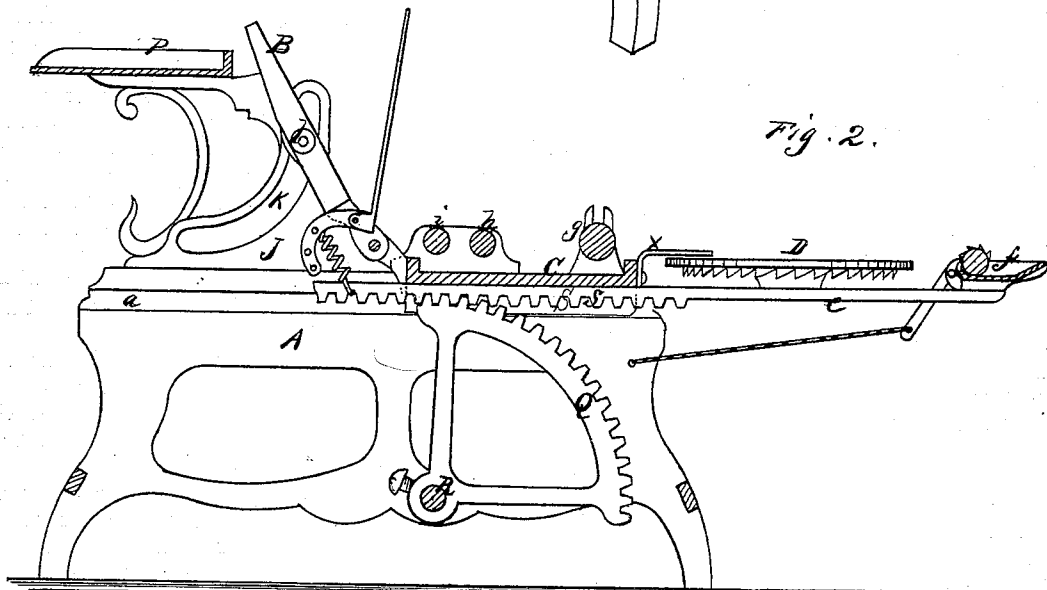


Fig. 2.



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UNITED STATES PATENT OFFICE.

AMOS H. BANGLE, OF BROOKLYN, CALIFORNIA.

IMPROVEMENT IN PRINTING-PRESSES.

Specification forming part of Letters Patent No. 129,084, dated July 16, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, AMOS H. BANGLE, of Brooklyn, Alameda county, State of California, have invented an Improved Printing-Press; and I do hereby declare the following description and accompanying drawing are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use my said invention or improvement without further invention or experiment, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a perspective view of my press. Fig. 2 is a longitudinal section.

A is the frame of the press, the sides of which are grooved to provide tracks or ways *a*, in which the form-bed slides horizontally in operating the press. The platen B is hinged to the form-bed C at one side, as described in my former patents, and a horizontal ink-distributing disk, D, is secured upon a beam, *e*, which is secured to the under side of the form-bed, and extends from it on the side opposite that to which the platen is hinged. An automatic inking-fountain, *f*, is also secured upon the beam at its outer end, as shown. The inking-rollers *g h i* are supported in boxes on the sides of the frame, and extend across just above the form-bed and inking-disk D. Skeleton side pieces J are secured upon the sides of the frame A, opposite each other at the platen end of the frame, each of which is provided with a curved slot, K, in which journals or trunnions *l* on the end of the platen move.

These slots are so constructed that they provide a cam to lower the platen and give the impression as the form-bed and distributing-table are moved horizontally back between the side pieces sliding in the side beams of the frame, and to lift the platen when the form-bed and table are returned. This movement is obtained as follows: The journals or trunnions *l*, provided with friction-rollers, extend outward from about the middle of the platen at each side. When the form-bed is moved backward between the side pieces J the rear portion of the platen is carried with it, so as to

throw the face of the platen downward, and the trunnions, moving down along the slots, close the platen upon the bed and give the impression. The reverse movement of the bed lifts the platen and leaves it in the proper position to receive a fresh sheet from the table P.

A toothed sector or quadrant, Q, is secured to the transverse shaft R, which passes across the lower part of the frame A, and which is operated by a compound lever, hereinafter described. This sector or quadrant engages with a rack, S, on the under side of the form-bed, so as to move the bed back and forth when the shaft is rocked by the lever T, the lower end of which is attached to the end of a short boss on the frame a short distance from the projecting end of the shaft R, and a slot, *u*, extends upward along the lever toward the handle. A short crank-lever, V, is secured to the end of the shaft R, and has at its upper end a wrist, *w*, which passes through the slot *u*. By moving the lever T back and forth the crank V is turned, thus rocking the shaft R and moving the bed back and forth along the ways on the frame and operating the press. To the back edge of the bed, near each corner, is secured a lifting-plate, X, which rises above the plane of the distributing-disk D, and serves to lift and support the roller *g* above the disk while it is revolving, but as soon as it has ceased its revolution the roller drops from the end of the plate or arm upon the disk.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The side pieces J provided with the curved slot K, in combination with the reciprocating bed C and hinged platen B with its journals or trunnions *l*, substantially as and for the purpose above described.

2. The compound or progressive lever, consisting of the slotted lever-bar T and short lever V with its pin or journal *w*, substantially as and for the purpose above described.

In witness whereof I hereunto set my hand.

AMOS H. BANGLE.

J. L. BOONE,
C. M. RICHARDSON.