

J. F. HALLENBECK.

Reciprocating Printing-Presses.

No. 147,257.

Patented Feb. 10, 1874.

Fig. 1.

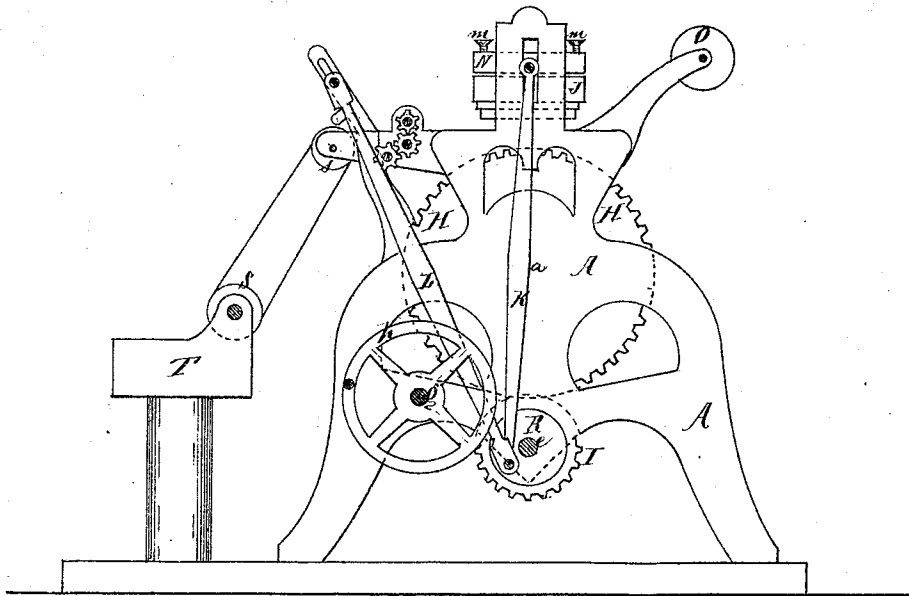
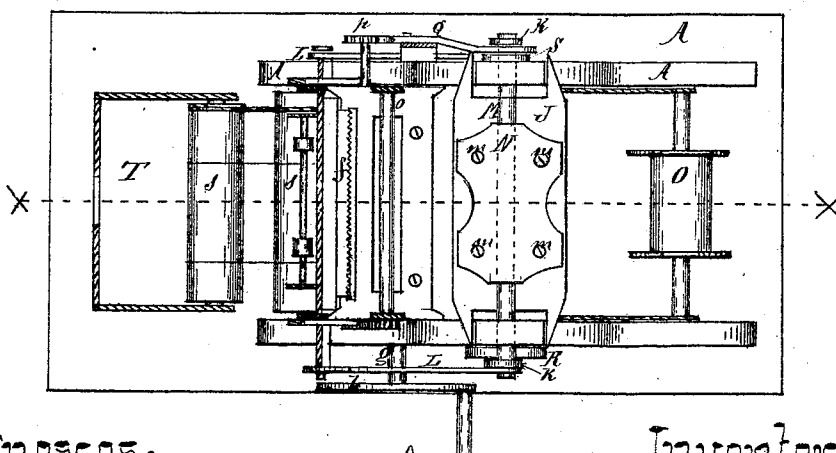


Fig. 2.



Witnesses:
Richard Gerner
Franklin Barritt

Inventor:
John F. Hallenbeck
Per Henry Gerner

J. F. HALLENBECK.

Reciprocating Printing-Presses.

No. 147,257.

Patented Feb. 10, 1874.

Fig. 3.

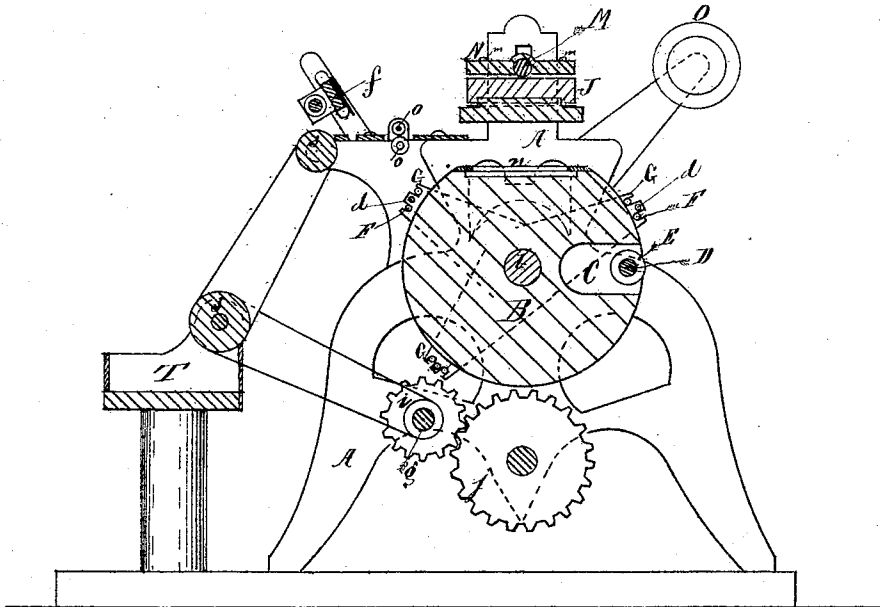
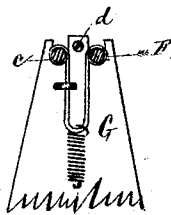


Fig. 4.



Witnesses:
Richard Gerner
Franklin Durrill

Inventor:
John F. Hallenbeck
Per Henry Gerner
Atty.

UNITED STATES PATENT OFFICE.

JOHN F. HALLENBECK, OF PORT CHESTER, NEW YORK, ASSIGNOR OF ONE-HALF HIS RIGHT TO DAVID W. PALMER, OF SAME PLACE.

IMPROVEMENT IN RECIPROCATING PRINTING-PRESSES.

Specification forming part of Letters Patent No. **147,257**, dated February 10, 1874; application filed May 23, 1873.

To all whom it may concern:

Be it known that I, JOHN F. HALLENBECK, of Port Chester, county of Westchester, State of New York, have invented certain Improvements in Reciprocating Printing-Presses, of which the following is a specification:

The object of my invention is to provide for a more effective printing-press, cheaply constructed, which will give perfect impression under any speed it is run at.

My invention consists in placing a frame on the top of a large stationary cylinder, for the purpose of holding the chase firmly, wherein the types are placed. Around this cylinder are a series of inking-rollers, certain distances apart, made to rotate by aid of rotating a frame to which the rollers are attached. In the interior of the cylinder is placed an ink-reservoir, from which ink is distributed to a rotating roller, in the side of the cylinder, which again distributes the ink evenly to the inking-rollers. On the top of the frame holding the stationary cylinder is an adjustable padded platen, which, by the movement of a lever attached to a rotating crank, is made to make an upward movement when a pair of rollers ink the type, and a downward movement when the said rollers have passed the chase. This downward movement presses a continuous slip of paper, made to pass between the chase and the padded platen, against the type. This continuous slip of paper, so printed upon, is then carried between suitable rollers, and, by aid of an automatically-working knife, is cut into the required lengths and deposited, in the ordinary manner, on a table or box in front of the press.

In order to more fully describe my invention, I refer to the accompanying drawing forming a part of this specification.

Figure I, Sheet 1, is a side view of a printing-press embodying my invention. Fig. II, Sheet 1, is a plan view of the same. Fig. III, Sheet 2, is a vertical sectional view through line *x x*, Fig. II. Fig. IV, Sheet 2, is a detached front view of one of the arms holding the inking-rollers.

A is the frame; B, the stationary cylinder, held at *a a* to the frame A. D is a rod, around which is cut a spiral groove, for the purpose of giving the roller E a laterally-reciprocating motion in coming in contact with the inking-rollers F F, thus distributing the ink from the reservoir to these rollers. G G are arms fastened to the axle *b*, on the ends of which the inking-rollers F F rotate in journals *c c*. *d d* are connecting-rods between the arms G G, running across the cylinder B between each pair of the inking-rollers. H is a cog-wheel of the same size as the cylinder, and is rotated by aid of the smaller cog-wheel I, placed on an axle, *e*. On each end of the axle *e* are placed cranks R and S, which, by levers K and L, give the required upward and downward movement to the padded platen J, and to the knife *f*. *g* is the driving-axle, with the driving-wheel *h*. The gear-wheel *i*, fastened to this axle, rotates the gear-wheel *j*, fastened to the axle *e*. M is a cross-bar, to which the levers K and L are attached, and which holds the plate N, to which again the platen J, by aid of set-screws *m m*, can be adjusted as required. O is a paper-roller, holding a continuous roll of paper, which is conducted over a chase, fastened in the frame *n*, by aid of rollers *o o*, which are rotated by a lever, Q, and cog-wheel *p*. *s s* are rollers, rotated by belts attached to the driving-axle, over which the paper roll is conducted into the box or table T in front of the press.

Having thus described my invention, I desire to claim—

The rotating inking-rollers F F and platen J, in combination with the cylinder B, with ink-reservoir C, grooved rod D, and roller E, arms G G, and levers K, L, and Q, substantially as and for the purpose hereinbefore set forth.

This specification signed this 10th day of May, 1873.

JOHN F. HALLENBECK.

Witnesses:

FRANKLIN BARRITT,
ANTON C. CRONDAL.