

A. L. Bevans, Paper Feeder.

No. 111,304.

Patented Jan. 31. 1871.

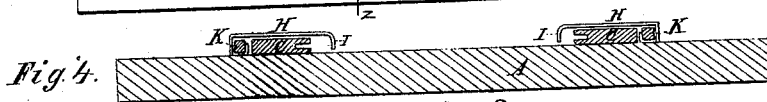
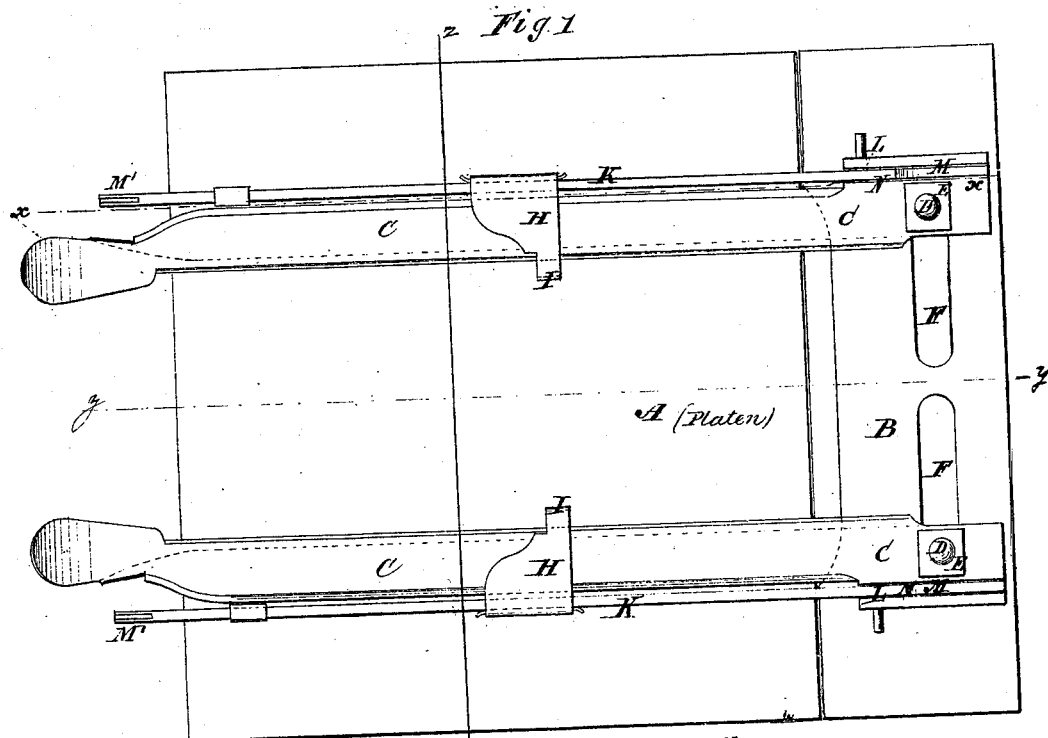


Fig. 2

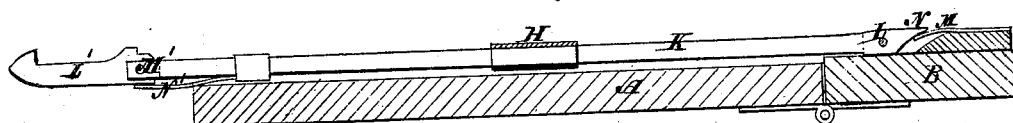
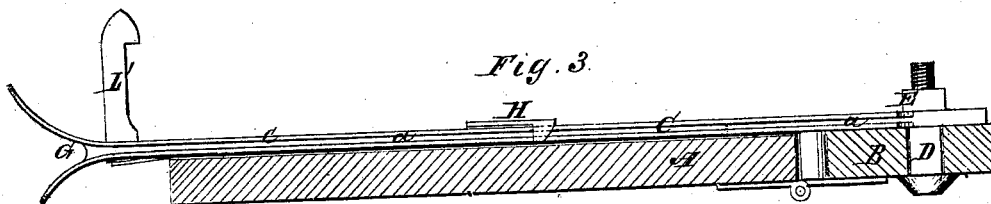


Fig. 3



Witnesses:

E. Wolff
L. S. Maber

Inventor:
A. L. Bevans
per *Munroe*
Attorneys.

UNITED STATES PATENT OFFICE.

ALEXANDER L. BEVANS, OF FLUSHING, NEW YORK.

IMPROVEMENT IN PRINTING-PRESS GUIDES.

Specification forming part of Letters Patent No. 111,304, dated January 31, 1871.

To all whom it may concern:

Be it known that I, ALEXANDER L. BEVANS, of Flushing, in the county of Queens and State of New York, have invented a new and Improved Printing-Press Attachment; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to improvements in printing-presses; and it consists in an improved card guide and holding and discharging attachment applicable to the Gordon card-printing press, which said attachment is arranged and applied as hereinafter described.

Figure 1 is a plan view of my improved guide attachment, and a plate representing the platen of the said press. Fig. 2 is a section of Fig. 1 on the line *x x*. Fig. 3 is a section on the line *y y*. Fig. 4 is a cross-section on line *z z* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A is a plate introduced to represent the platen of the Gordon press, and B a plate hinged temporarily to the platen A, to represent the shaft of the said press, on which the guides which hold the sheet on the platen are mounted. To this shaft, which is vibrated with the platen to some extent, I propose to attach the card guides and holding bars C in any suitable way, so that they may be supported by it, and be adjustable along it to or from each other. In this case clamping-bolts D and nuts E are employed, the said bolts passing through slots F in the plate B, which represents the said shaft; but any suitable way of holding the said guides may be used. These guides consist of long flat plates of metal, having guide-grooves *a* in one edge, the groove of each one fronting the opposite guide, so that a card dropped in at the top will be guided accurately along down the face of the platen A. These grooves are widened at the top, as shown at G, to admit of readily inserting the card.

H represents sliding stops, with projections I, which stand in front of the grooves when the stops are affixed to the bars K, so as to arrest the cards at any required point along the platen. These bars K are pivoted to the guides at L, and springs M are applied to the toes N, to throw them back against the platen when raised from it. When these bars are

raised away from the bars C and the platen, they carry the projection I from the front of the guide-grooves and allow the cards to drop. For the purpose of raising the said bars away to let the cards drop, they are provided with the hooks L' at the top, to be engaged by suitable projections properly placed on the bed-plate of the said machine for engaging the said hooks at the time the platen and the type come together in making the impression, and carrying the bars K at the upper ends back with the type-bed a short distance for discharging the card, after which the hooks become disengaged by the rising of the platen and the guide-shaft faster than the type-bed rises, as the two move away from each other. These hooks are pivoted to the bars, as shown at M', and they have square corners behind the pivots, against which springs N' bear to force them back when raised by the projections on the type-bed, which engage them when the platen and type-bed come together. This construction also admits of throwing one of the hooks up into the vertical position, as shown in Fig. 2, at any time it may be required to retain a card after the impression, to take it out for inspection, which is often done to see that the work is perfect. The hook being turned up, the bar K, to which it belongs, will not be drawn away from the bar C, to which it belongs. Consequently the card will be retained.

The stops H may be adjusted up or down on the bars K along the bars C, according to the size of the card to be printed. These guide bars C may be used for clamping the paper, when printing handbills, circulars, and the like, to the platen in the same way, and equally as well as the clamping-bars commonly used with the said Gordon press.

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

The improved card guiding and holding attachment for printing-presses, consisting of the guide-bars C, the vibrating bars K, the sliding stops H, and the hooks L, all combined and arranged together and for application to a printing-press substantially as specified.

The above specification of my invention signed by me this 12th day of July, 1870.

A. L. BEVANS.

Witnesses:

GEO. W. MABEE,
ALEX F. ROBERTS.