4 Sheets—Sheet 1.

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Fig. 1.

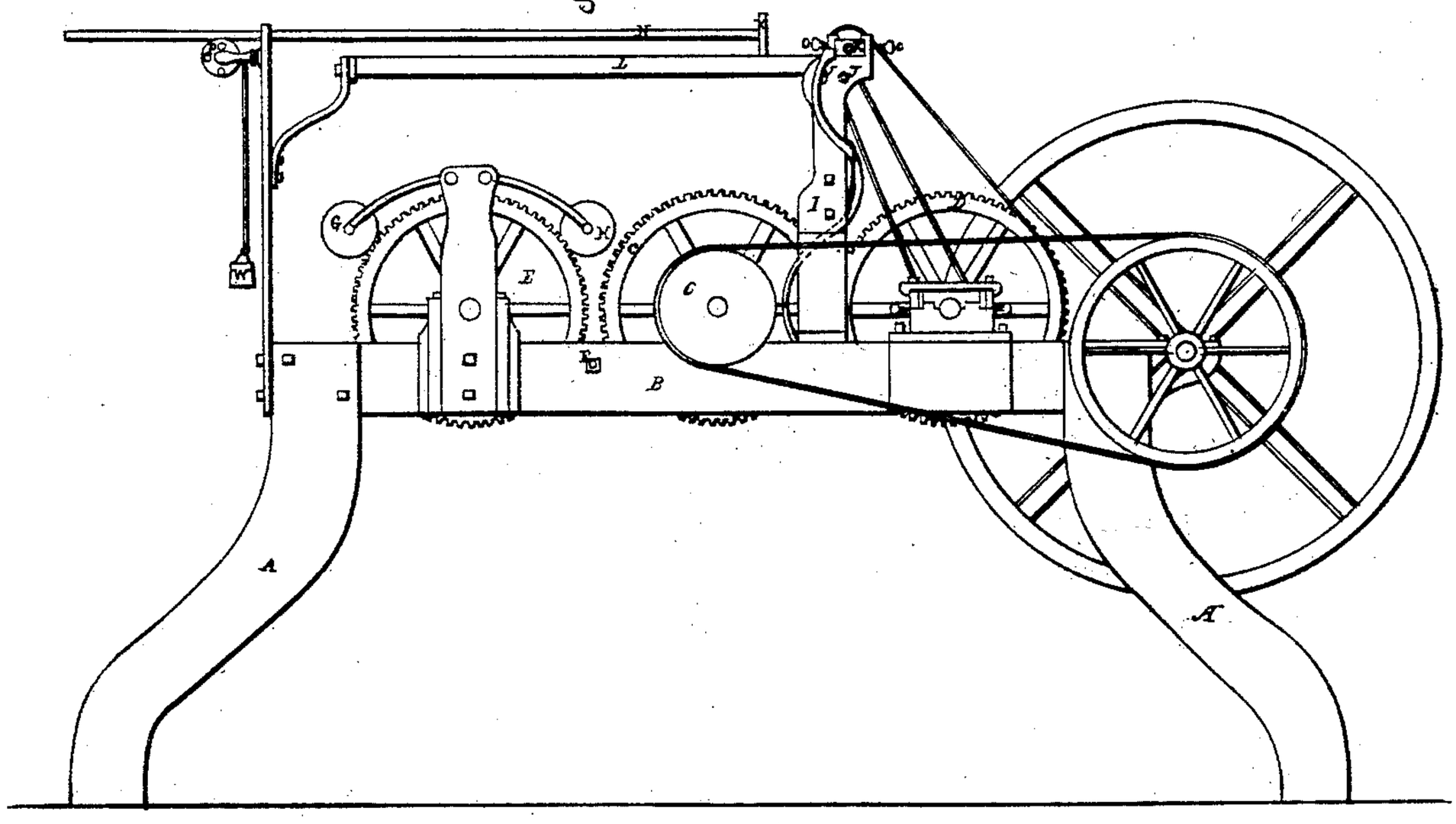

Fig. 4.

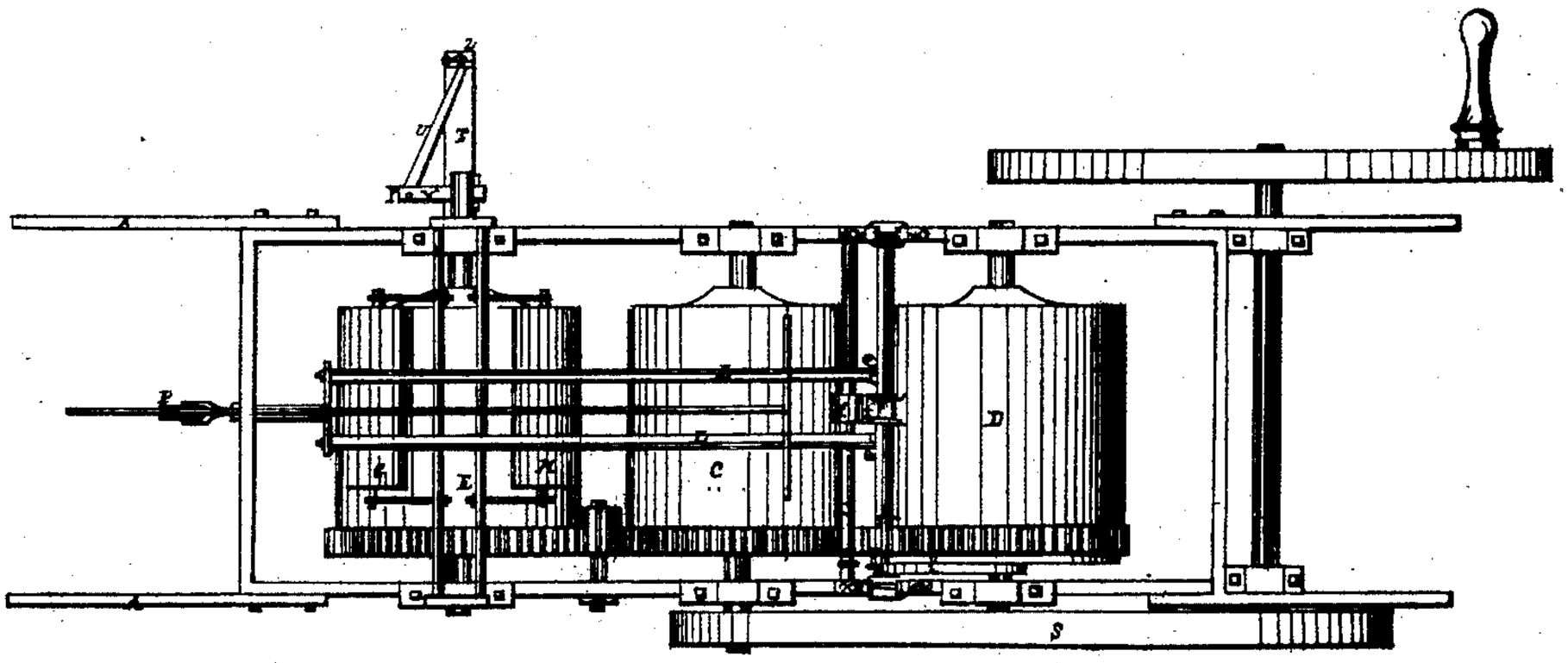

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Fig 3.

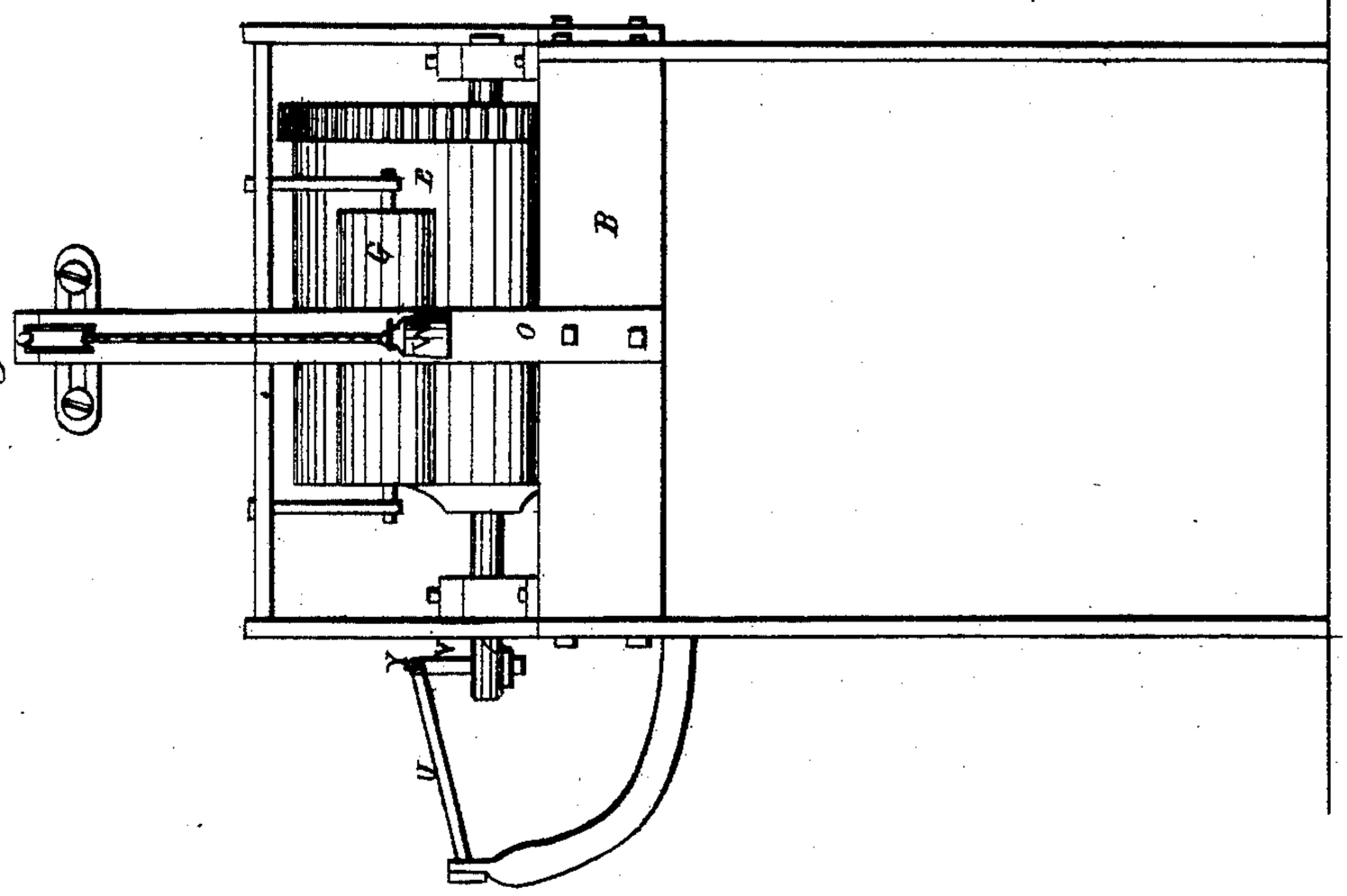
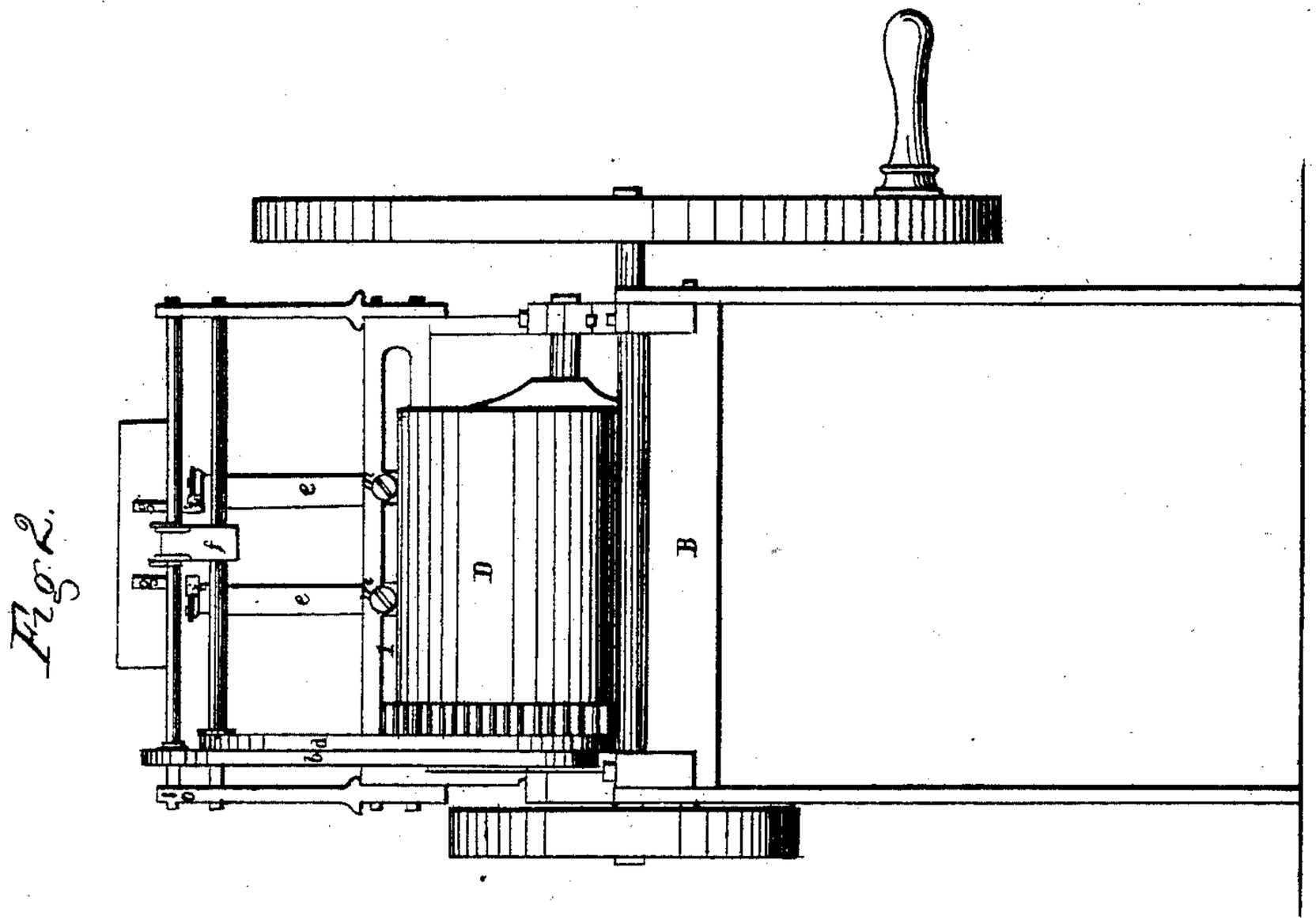


Fig 2.



Inventor:

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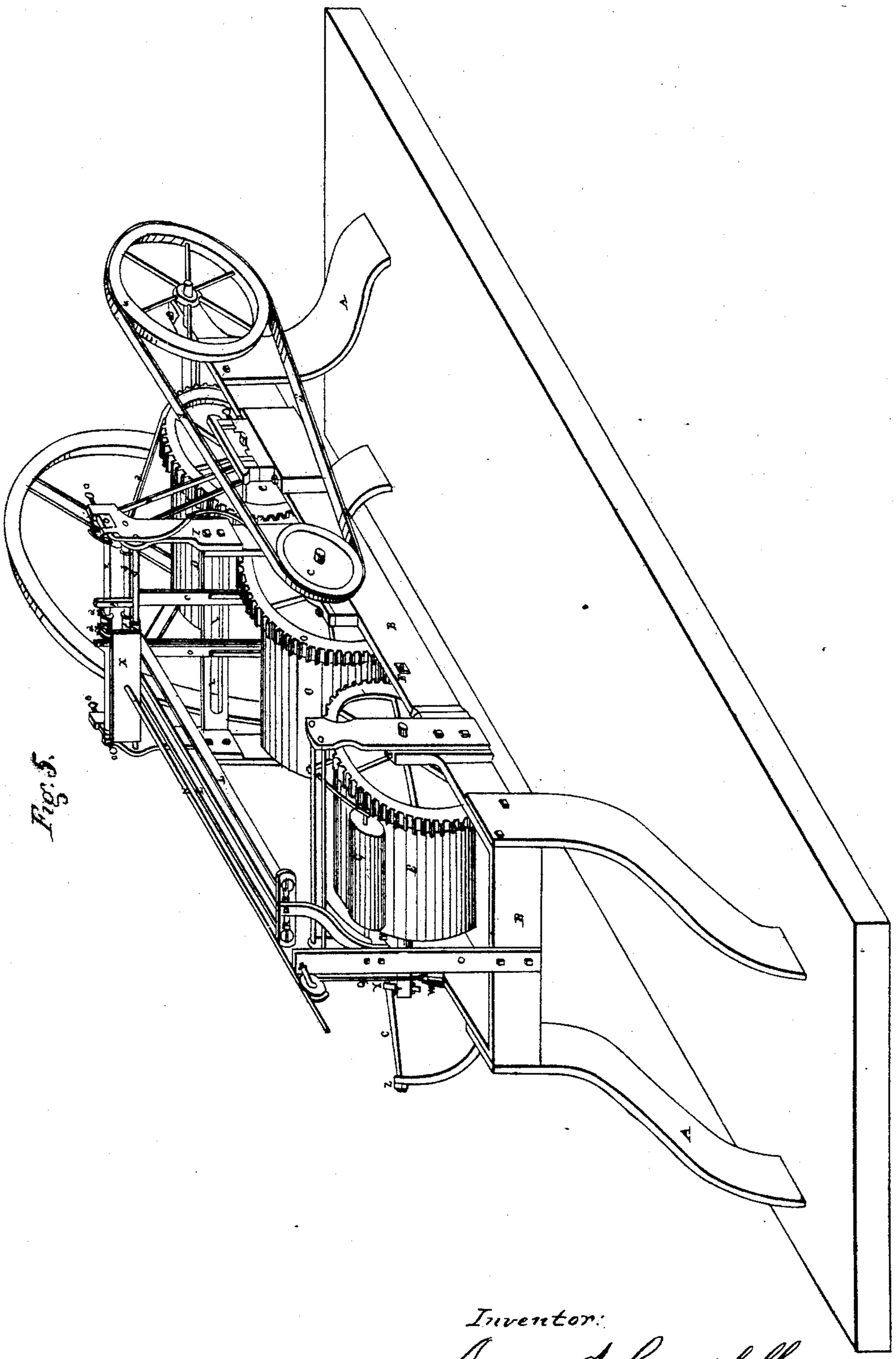

Fig. 5.

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Fig 7.

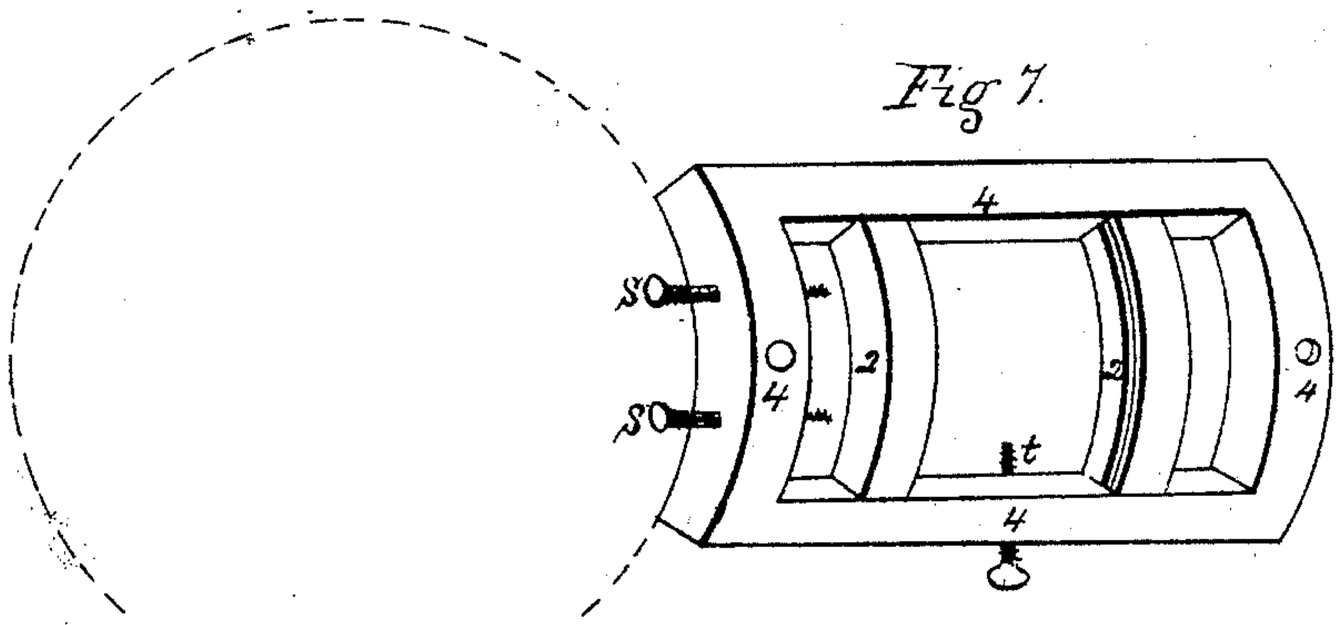

Fig 8.

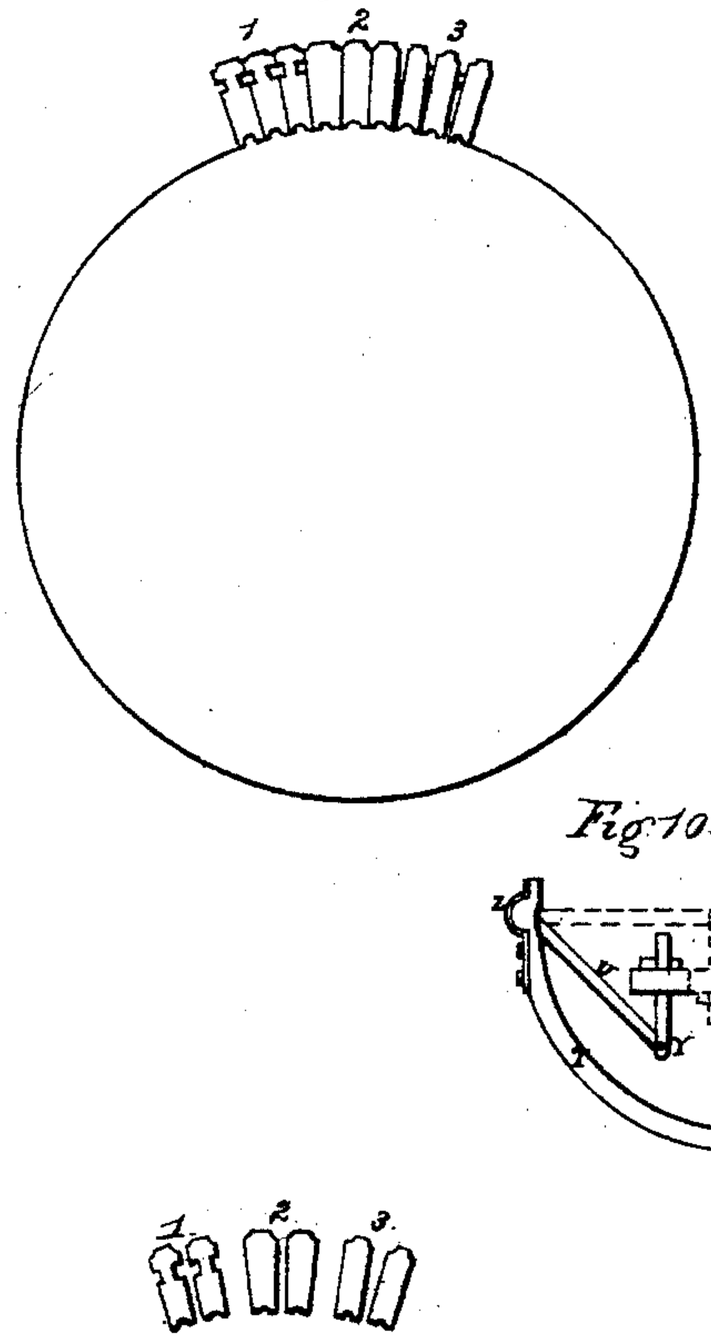

Fig 6.

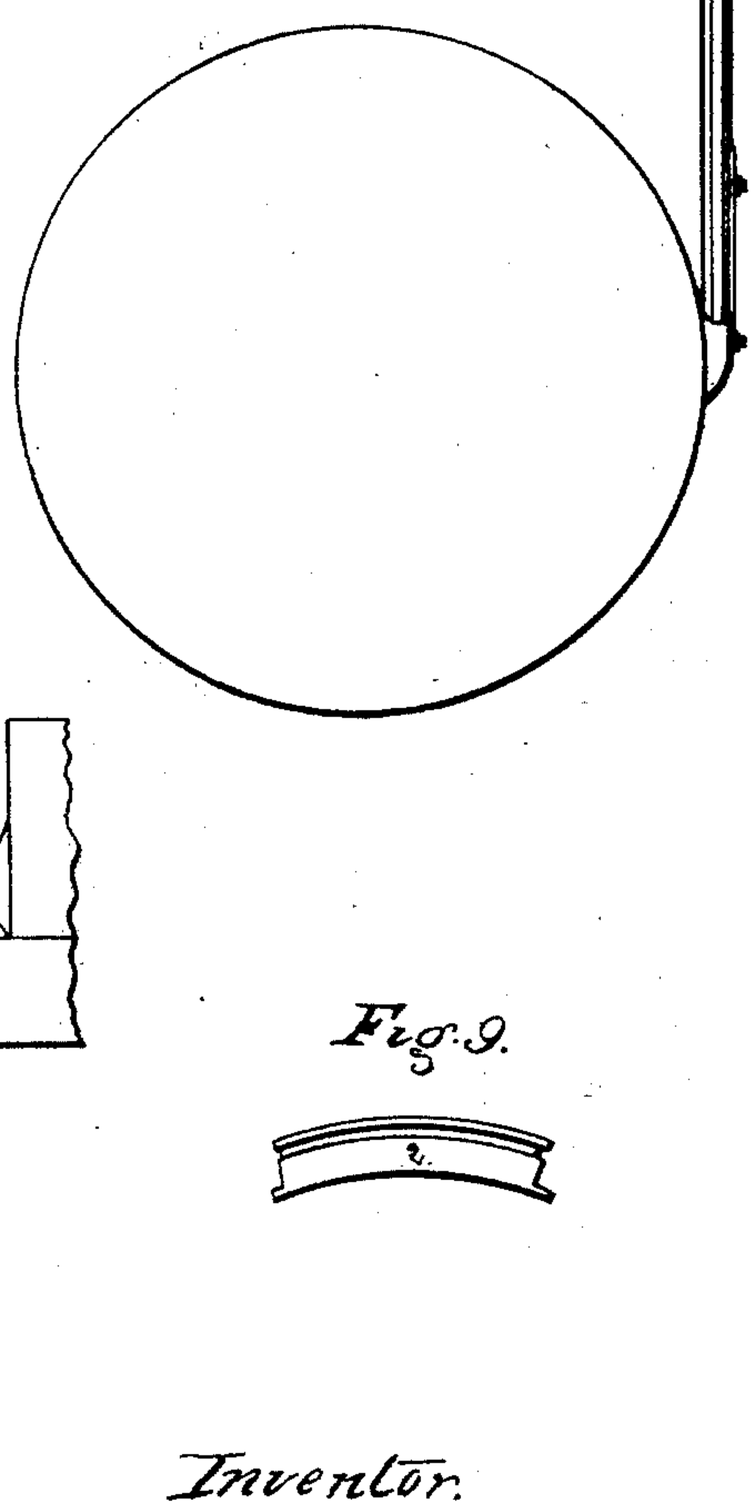

Fig 10.

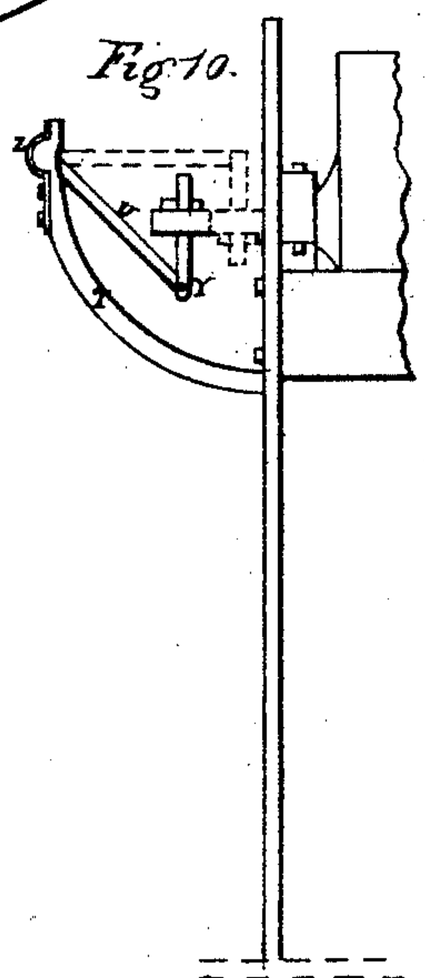

Fig 9.

Inventor.
James A. Campbell.

UNITED STATES PATENT OFFICE.

JAMES A. CAMPBELL, OF NEW ORLEANS, LOUISIANA.

PRINTING-PRESS.

Specification of Letters Patent No. 21,484, dated September 14, 1858.

To all whom it may concern:

Be it known that I, JAMES A. CAMPBELL, of the city of New Orleans, State of Louisiana, have invented a new and useful Improvement on Card-Printing Presses; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, making a part of the specification, in which—

Figure 1 is a side elevation; Fig. 2 a front end elevation; Fig. 3 a rear end elevation; Fig. 4 a plan view; Fig. 5 a perspective view; and Figs. 6, 7, 8, 9 and 10 are representations of detached parts.

The motion is applied to the press through the band wheel and band S, (Fig. 1) operating on the type cylinder C; the gear wheel of which works into the gear wheel of the impression cylinder D, and also into the pinion wheel F, (shown in Fig. 4) and that wheel into the gear wheel of the inking cylinder E.

The ink is placed on the composition roller G, and by the motion of the press, the ink cylinder E receives it and distributes it on the face of the type on the cylinder C; the type and the impression cylinder D then coming in contact, take the card in waiting and print it.

The type can be made expressly for this press, as shown in Fig. 8, Nos. 1 and 2, or common type can be used, as shown by No. 3 Fig. 8, by placing little strips or bars between every line of type, the ends of which are to go into the grooves of the sliding bars of the chase as shown in Fig. 7, No. 2, and also in Fig. 9, where a view of the sliding bar is given.

The rabbeted rails L L (Figs. 1, 4, and 5,) and upright grooves *c c*, (Figs. 2 and 5) are fastened together firmly, and are adjustable to the size of any card, by means of the slots *l l* (Figs. 2 and 5) and R R, (Figs. 3 and 5.) The cards are placed on these rails L L edgewise, with their two bottom corners resting in the rabbets of the rails, and while in this position, they are operated upon by the board X (Figs. 1, 2, 4, and 5) through the agency of the rod N, pulley P, cord Q and weight W (Figs. 1, 3, 4, and 5) forcing them against the upright plates *g g* (Figs. 2, 4, and 5) which regulate the opening through which the cards have to pass, to the thickness of the card by means of the screws *i i* (Fig. 2). The roller M (Figs. 2, 4, and 5) with the teeth *a a* on a portion of its perimeter is regulated by the screws *o o* (Figs. 1, 2, 4, and 5) to operate on the front card of the pack, making one revolution for each revolution of the press, thereby pushing one card each time through the adjusted opening above the upright grooves *c c*, (Figs. 2 and 5) until it is caught between the two rollers *f f* (Figs. 2, 4, and 5) which rollers revolving all the time seize and draw it from the rest of the pack and drop it below ready to be printed.

In using the band *b* to revolve the roller K (Figs. 2, 4, and 5) it is necessary to make the pulley on the axle of the cylinder D somewhat larger than that on the shaft K, (Figs. 2 and 4) for the purpose of allowing for the slipping of the band; and to prevent it from going more than once around at each revolution of the press, I place a peg on the shaft K, which strikes against the lever *t* (Figs. 1 and 5) which lever is pushed back once in each revolution of the press, by the agency of a peg placed on the wheel C operating on the lower end of the lever *t*. This lever arrangement can be dispensed with by substituting an endless chain in place of the band between the axle of the cylinder D and the shaft K. This feeding apparatus can be readily applied to any press with a stationary platen.

The cylinder E receives its lateral motion, for the purpose of distributing the ink, by means of the combination of the stationary arm T, the ball and socket Z, the rod U connected with the short arm V by the working joint Y (Figs. 3, 4, 5, and 10.)

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The teeth placed on a portion of the perimeter of the roller M, for the purpose of pushing the card through the opening above the perpendicular grooves *c c*, by the operation of these teeth on the surface presented by the front card of the pack, in combination with the rollers *f f* substantially as specified.

2. Also the adjustable plates *g g*, as specified for the purpose of regulating the opening through which the cards have to pass, to the thickness of the card.

3. Also the combination of the stationary arm T, ball and socket Z, rod U, short arm V and the working joint Y for the purpose of giving the inking cylinder a lateral motion.

JAMES A. CAMPBELL.

Witnesses:
JOEL S. BROWN,
EDWARD H. PHELAN.