

W. P. KIDDER.
Printing-Press.

No. 160,333.

Patented March 2, 1875.

Fig. 2.

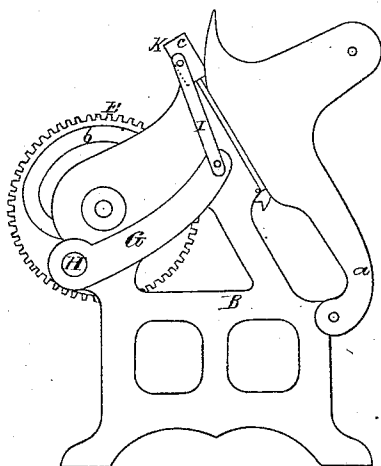


Fig. 3.

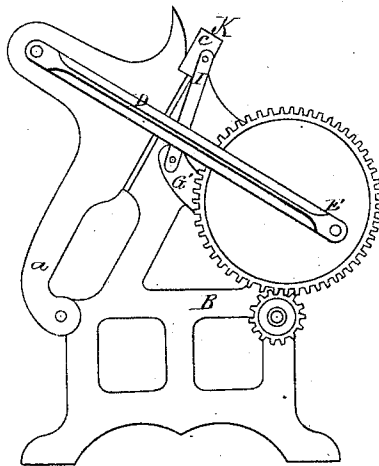


Fig. 4.

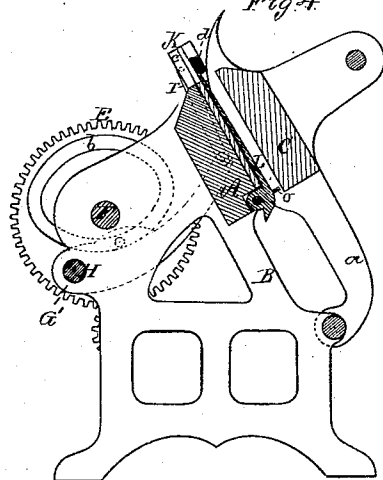


Fig. 1.

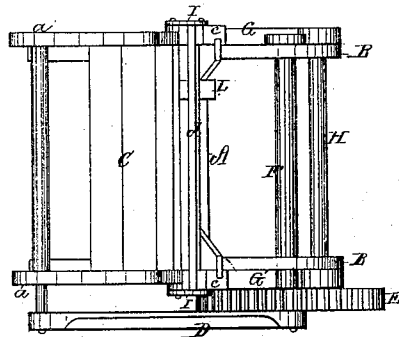
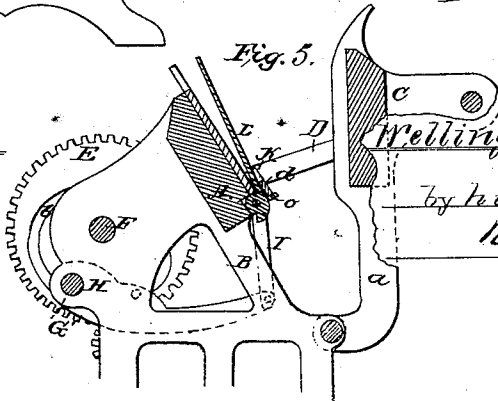


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE

WELLINGTON P. KIDDER, OF MALDEN, MASSACHUSETTS.

IMPROVEMENT IN PRINTING-PRESSES.

Specification forming part of Letters Patent No. **160,333**, dated March 2, 1875; application filed December 9, 1874.

To all whom it may concern:

Be it known that I, WELLINGTON P. KIDDER, of Malden, of the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Printing-Presses; and do hereby declare the same to be fully described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view, Figs. 2 and 3 opposite side elevations, and Fig. 4 a vertical section, of a card, circular, or letter printing-press with my improvement. Fig. 5 is a vertical section, showing the fender near the limit of its downward motion, and the clamp L lifted from the platen.

In presses of this nature, when the bed carrying the form of type is movable to and away from the platen supporting the paper to be printed, there is great danger of an attendant, who puts on and takes off the paper, getting his fingers caught and injured or crushed between the bed and platen.

To prevent this is the main purpose of my invention, in the carrying out of which I combine with the press a mechanism which will effectually remove all danger of such an accident, and, besides, it serves to both close down and elevate the clamp or clamps for holding the paper to the platen.

In the drawings, A represents the platen, supported in an inclined position by a frame, B. The bed (exhibited at C) is pivoted to the frame B by means of arms *a a*, projecting down from the bed, as shown, the bed being moved toward and away from the platen by a connecting-rod, D, and a crank-wheel, E, the latter being fixed on a shaft, F. On its inner side the crank-wheel E has a cam-groove, *b*, made in it to receive a stud projecting from one of two arms, G G', that extend in manner

as shown from a rocker-shaft, H. The said arms, at their free ends, are, by connection-rods I I, joined to a fender, K, which consists of two slide-blocks, *c c*, and a bar, *d*, connecting them, all being arranged with the platen in manner as represented. The blocks slide freely on the opposite edges of the platen, and the bar *d* extends over or across the paper-clamp L, which, at its lower part, is hinged to the platen, and has a small stud, *o*, extended from it, (the said clamp,) against which the bar *d* strikes in descending, in order to throw up the clamp. There may be to the platen two of said clamps, each having such a stud.

While the bed may be advancing to the platen the fender will be moved up between the two, and in case a hand or the hands of an attendant may be upon the platen the said fender will be moved in contact with the hand or hands and force such upward off the platen, thereby preventing the hand or hands from being caught and crushed between the bed and platen.

I claim—

1. The combination of the sliding or reciprocating fender K, provided with mechanism for actuating it, as described, with the printing-press or bed C and platen A, arranged and to operate as set forth.

2. The combination of the fender K, provided with mechanism for actuating it, as described, with the platen A and bed C and one or more sheet holders or clamps, L, as specified, arranged and connected with the bed as set forth.

WELLINGTON P. KIDDER.

Witnesses:

R. H. EDDY,
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