W. P. KIDDER.

FENDERS FOR PRINTING PRESSES.

No. 185,241. Patented Dec. 12, 1876.

Fig. 1.

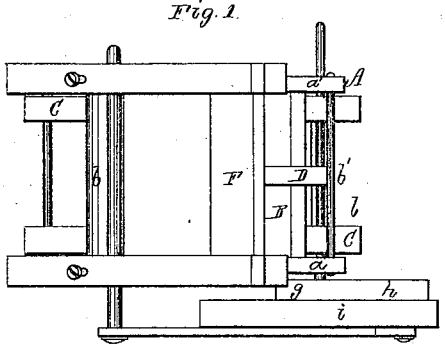


Fig. 2.

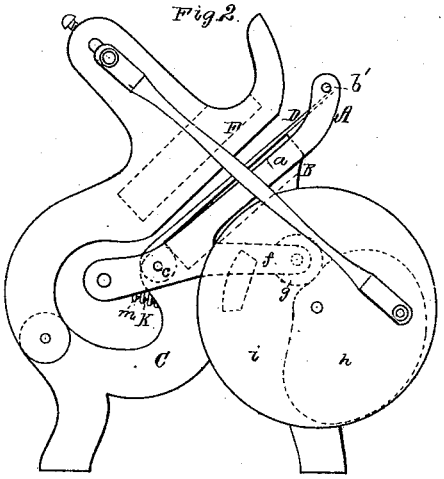
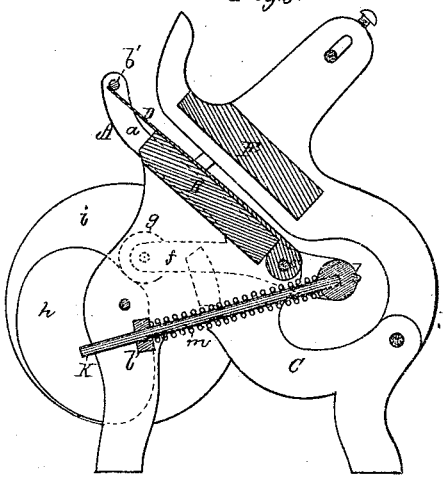


Fig. 3.



Witnesses.
S. N. Piper
L. N. Mallard

Wellington P. Kidder
by his attorney
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UNITED STATES PATENT OFFICE.

WELLINGTON P. KIDDER, OF MALDEN, MASSACHUSETTS.

IMPROVEMENT IN FENDERS FOR PRINTING-PRESSES.

Specification forming part of Letters Patent No. **185,241**, dated December 12, 1876; application filed August 25, 1876.

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 Fenders for 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 denotes a top view; Fig. 2, a side elevation, and Fig. 3 a longitudinal section, of my invention with the parts of a printing-press to which it is applied.

In this press the platen-fender, for preventing the fingers of an attendant from being caught and pinched between the platen and bed, is shown at A as composed, in part, of two levers, *a a'*, and two connection-bars, *b b'*, arranged as represented. These levers, disposed on opposite edges of the platen B, have a pivotal shaft, *c*, which, fixed in them, goes through and turns in bearings in the platen-supporting frame C, and has fixed to its middle the sheet-holder or clamp D, which, as shown, is a thin blade or arm, that extends underneath and rests against the cross-bar *b'* of the fender. It moves with and is moved by the fender. From the lever *a* an arm, *f*, carrying a friction-roller, *g*, projects in manner as shown. This friction-roller rests at its periphery upon that of a cam, *h* fixed to the inner side of the fly-wheel *i*. To the middle of the cross-bar *b* a rod, *k*, is pivoted. It slides through a support-bar, *l*, and goes through a helical spring, *m*, which bears at its ends against the bars *b* and *l*. This spring serves to depress or move the fender A in one direction, it being moved the opposite way by the cam acting against the friction-roller, which it will do during part of the revolution of the said cam. The fender A and the sheet-holder D are to be brought down even with the platen a short time before the bed F may go down to its lowest position. Should the hand of an attendant be resting upon the platen or sheet of paper during a descent of the fender, the latter, by gently falling upon the arm or wrist, will warn the attendant to remove his hand from the platen in time to prevent the fingers from being caught between and crushed by the platen and bed.

In patents heretofore granted to me the fender has been represented as so applied to the platen as to move along such in a manner to suddenly press against and force the wrist off the platen, in order to prevent accident or crushing the fingers.

My present fender does nothing of the kind, but simply descends gently upon the wrist or arm without force sufficient to injure it, and thereby warns the attendant of his danger in time to prevent his fingers or wrist from being injured by the bed.

I therefore do not herein claim a fender supported by slides applied to the edges of the platen, and to move up and down thereon; nor do I claim a spring or sheet-holder pivoted or attached to the platen, and extended up underneath and against the fender, all being as shown in patents heretofore granted to me.

I claim—

In combination with the lever-fender, provided with the operative spring and cam, and arranged with and applied to the platen or its supporting-frame, as described, the sheet-holder, arranged at right angles with and fixed to the fender pivotal shaft, and extended under and against the front cross-bar of the fender, all being substantially as set forth.

WELLINGTON P. KIDDER.

Witnesses:

R. H. EDDY,

S. N. PIPER.