W. P. KIDDER.

Inking Apparatus for Printing Presses.

No. 204,900. **Patented June 18, 1878.**

Fig. 1.

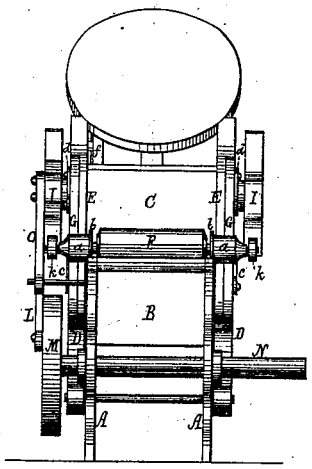


Fig. 2.

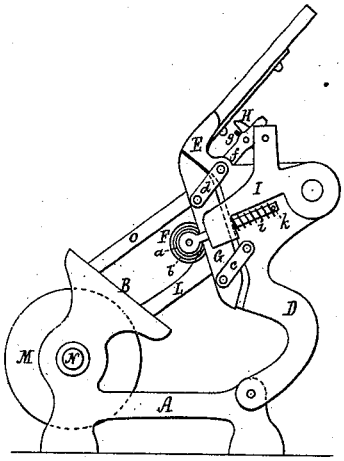


Fig. 3.

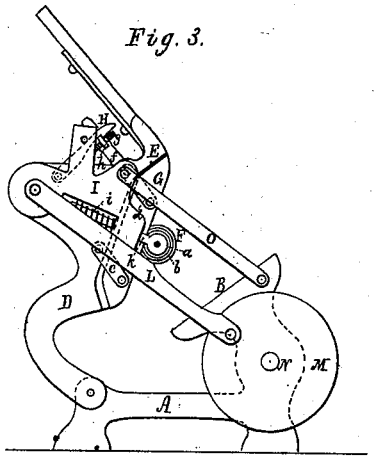


Fig. 4.

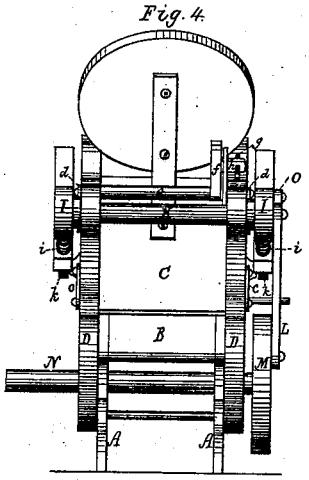
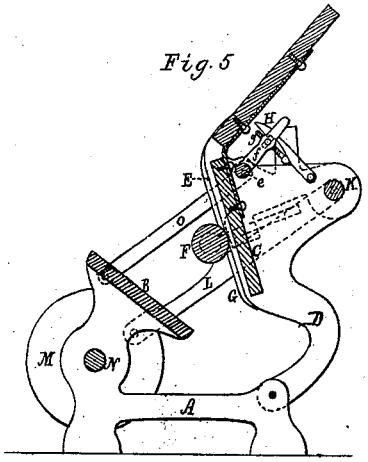


Fig. 5



Witnesses.
S. N. Pipin
John R. Snow.

Inventor;
Wellington P. Kidder
by his attorney.
R. H. Eddy

UNITED STATES PATENT OFFICE.

WELLINGTON P. KIDDER, OF JAMAICA PLAIN, MASSACHUSETTS.

IMPROVEMENT IN INKING APPARATUS FOR PRINTING-PRESSES.

Specification forming part of Letters Patent No. **204,900**, dated June 18, 1878; application filed May 10, 1878.

To all whom it may concern:

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

Figure 1 is a front elevation, Figs. 2 and 3 side views, Fig. 4 a rear elevation, and Fig. 5 a vertical section, of a printing-press provided with my invention, in the carrying out of which I combine with the movable bed, its carrying-arms and inking-roller rails, auxiliary movable rails or bearers, and mechanism, substantially as described, for supporting them, operating them by hand, and limiting their movements, all being essentially as hereinafter set forth.

I also provide each of the inking-cylinder sustaining-rollers with a flange arranged with and to project from it, in manner as shown.

With my improvement the rolls run on the bearers during a short portion only of the traverse of the roller, or until the flanges may meet and rise upon the table. These flanges, while moving over the table, keep the peripheries of the roller-wheels out of contact therewith, though allowing the curved surface of the inking-roller to run against the table.

By keeping the peripheries of the roller-wheels off the inking-table while the inking-roller is passing across it, the wheels are prevented from being inked, so as to soil the bearers.

In the drawings, A denotes the frame of the press; B, the stationary inclined platen, and C the movable bed for carrying the form of type. The bed is supported by two arms, D D, which, at their lower parts, are pivoted to the frame A. The portion E E of each of such arms constitutes one of the bearers for the wheels *a a* of the inking roller or cylinder F to run on while the said inking-cylinder is traversing across the form of type, each of such wheels *a* being provided with a flange, *b*, extending from it, at its inner end, and bebond its periphery, in manner as represented. These flanges are between the two bearings E E, and close to them, though not in contact with them. Each of the said bearings E E is recessed to receive one of two auxiliary or movable bearers, G G, each of which, at its lower part, is connected with the main or stationary bearing by a link, *c*, pivoted to both, and arranged as represented. Furthermore, each movable bearing G is pivoted to one of two arms, *d d*, that project from a shaft, *e*, going transversely through and having bearings in the two arms D D. Each arm *d* is parallel to the link *c* immediately below it.

Furthermore, another arm, *f*, is extended upward from the shaft *e*, and carries a stop-screw, *g*, which is screwed through an ear, *h*, extending from the arm. This stop-screw, by bringing up against the upper part of the stationary bearer E E, limits the backward movement of the auxiliary or movable bearers G G, their forward movements being limited by a latch, H, pivoted to the arm D, and formed to hook on the ear *h*. On taking hold of and moving back the arm *f* the two movable bearers G G will be advanced so as to extend somewhat in front of the stationary bearers. These movable bearers are to keep the inking-roller out of contact with the type while such roller may be traveling across the form, and the ink may not be properly distributed on it or the table, or be in the process of being so distributed.

The inking-roll is drawn backward by springs *i i* suitably applied to slides *k k*, on which the journals of the roller are pivoted. These slides are arranged in arms I I, extending from a shaft, K, disposed, as shown, in the arms D D.

A connecting-rod, L, pivoted to the shaft K and to a cranked wheel or pulley, M, fixed on a driving-shaft, N, (all being as represented,) causes, during the rotary motion of the said shaft N, the bed to be moved toward and away from the platen, another such connection-rod, O, pivoted to the platen and to one of the arms I I, causing, in the meantime, such movements of the said arms as to effect the necessary up-and-down movements of the inking-roller across the inking-table and the form of type.

I do not claim in a printing-press the inking-roller main supporting-rails applied so as to be movable relatively to the bed, and provided with mechanism for moving them for-

ward, in order that the inking-roller, while traversing across the form of type, may not run in contact therewith.

What I claim in the printing-press as my invention is as follows—that is to say:

1. In combination with the bed C, its pivotal sustaining-arms D, and the inking-roller rails E thereof, auxiliary rails or bearers G, applied thereto, and mechanism, substantially as described, for supporting such bearers and effecting and limiting their movements, as explained, it consisting of the links *c*, arms *d*, shaft *e*, arm *f*, latch H, and screw *g*, arranged and applied as represented.

2. The inking-roller wheels provided with the flanges, in combination with the inking-disk or table, arranged so that the peripheries of such flanges during a traverse of the inking-roller across it may run in contact with the face of such disk or table.

WELLINGTON P. KIDDER.

Witnesses:

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