J. TURNER.

Feed-Gage for Printing-Presses.

No. 162,207. Patented April 20, 1875.

Fig. 1

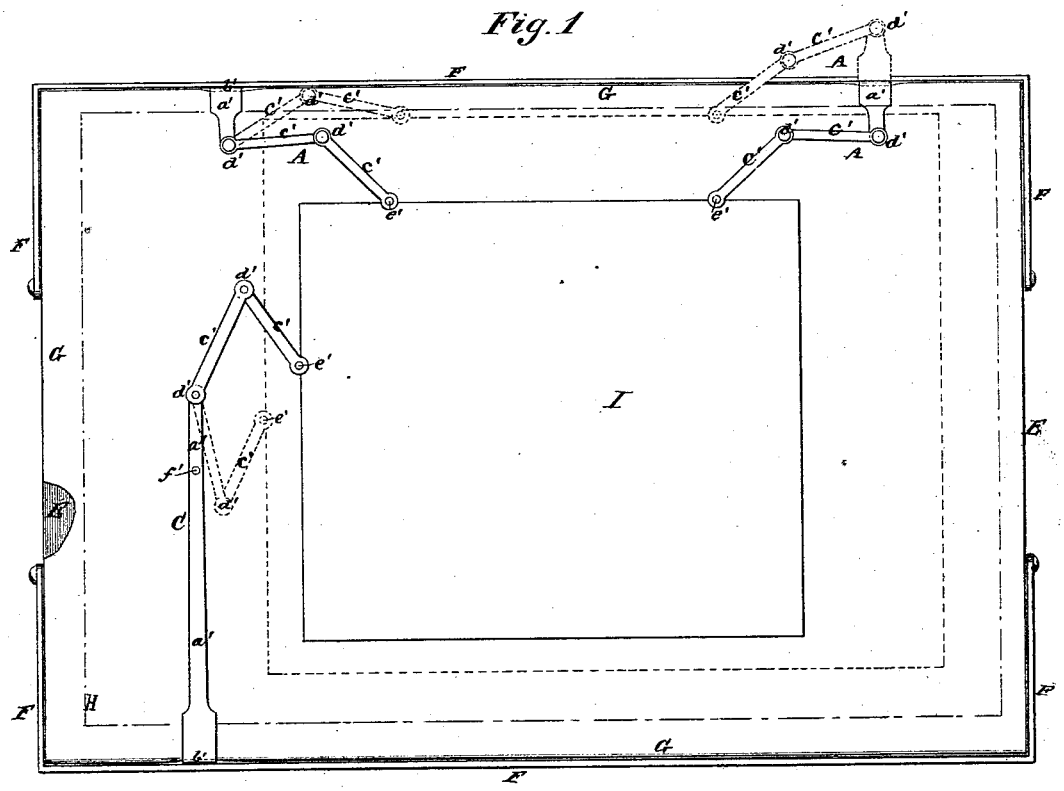


Fig. 2

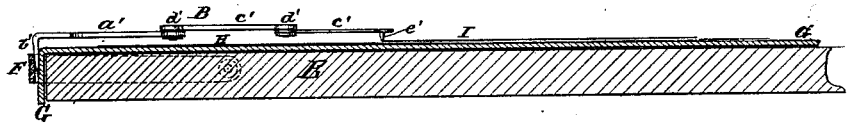
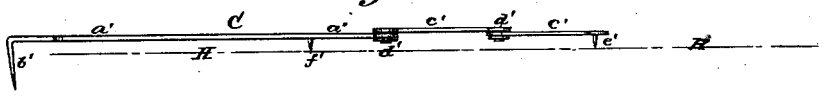


Fig. 3



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UNITED STATES PATENT OFFICE

JAMES TURNER, OF MONTREAL, CANADA.

IMPROVEMENT IN FEED-GAGES FOR PRINTING PRESSES.

Specification forming part of Letters Patent No. **162,207**, dated April 20, 1875; application filed October 10, 1874.

To all whom it may concern:

Be it known that I, JAMES TURNER, of the city of Montreal, in the Dominion of Canada, have invented an Improved Adjustable Feed-Gage for Printing-Presses, of which the following is a specification:

The object of my invention is to furnish a cheap, simple, and convenient implement for the use of job-printers, to facilitate a rapid adjustment of blanks for cards, circulars, and other papers of various sizes, on the platen, so that they will "register well," or be in such equal position that each successive paper will receive the impression of the type in exact uniformity with the foregoing; and it consists in an adjustable gage (or set of gages) made of two or more pieces of metal, one of which is bent at a right angle, or nearly so, the downward-projecting flange being broad and flat, in order to enable its being readily secured to the edge of the platen by insertion between the blanket and the bail which holds the same. To the horizontal portion of this piece the next one is riveted sufficiently tight to require a slight exertion to move it. A third piece is riveted in a similar manner to the second one, the last one being provided with a steel point, which, when in position on the platen, serves to gage the paper in that point.

In the accompanying drawing, Figure 1 represents, in a plan view of about one-half of the full size, a platen of the so-called "quarter-medium" size with my gages attached, and adjusted to two different sizes of papers. Fig. 2 is a longitudinal section of the platen, and an edge view of one gage (No. 2) attached. Fig. 3 is an edge view of the largest (No. 3) gage of the set.

Similar letters of reference indicate like parts in the different figures.

Five gages, of three different sizes, constitute a complete set. For convenience' sake I will here number them No. 1, No. 2, and No. 3, A being the smallest or No. 1, B the medium or No. 2, and C the largest or No. 3. They are all alike except as to size and proportion. To gage a larger size paper, two No. 1 gages are used for the front edge of the paper and one No. 3 for the side gage. For smaller sizes of paper, two gages of the medium size, No. 2, are substituted for those of No. 1, the third size, C, remaining as side gage. Each gage has a portion, a', provided with a downward-projecting flange, b', which latter, when being inserted at the edge of the platen E, between the bail F and the blanket G, holds the portion a' stationary and firm in a horizontal position. Each gage consists, furthermore, of movable links or arms c', joined together and to the stationary portion a' by joints or rivets d'. These rivets are drawn tight enough to produce sufficient friction to cause the arms c' to remain in the position to which they have been gaged, and yet easy enough to allow of their being adjusted or gaged by the application of a little extra force in moving the arms c' horizontally on their rivets or joints d', until they come in the position desired. In the end of the last link or arm c' is a steel point, e', which is depressed slightly into the paper or apron H generally placed on top of the blanket G.

The use of the gages is plainly illustrated in Fig. 1, where a paper, I, is placed for printing, so that its front edge touches the points e' of the adjusted gages A, and its side edge touches the point e' of the adjusted side-gage C. In dotted lines is indicated a larger size paper, and the gages adjusted in different positions to suit the same. The steel point f' on the part a' of gage C is used for steadiness against lateral pressure.

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

A printing-gage, A B C, provided with one or more points, e' f', and composed of the jointed adjustable arms c' c', pivoted to the stationary part a', having the flange b', for attachment to the platen of a printing-press, in the manner and for the purpose substantially as specified.

The above specification of my invention signed by me, this 16th day of September 1874.

JAMES TURNER.

Witnesses:

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