

UNITED STATES PATENT OFFICE.

JOSEPH EMILE ROY, OF MONTREAL, CANADA.

PRINTING-PRESS.

No. 817,276.

Specification of Letters Patent.

Patented April 10, 1906.

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To all whom it may concern:

Be it known that I, JOSEPH EMILE ROY, a subject of the King of Great Britain, residing in the city and district of Montreal, in the Province of Quebec, Canada, have invented certain new and useful Improvements in Printing-Presses; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to new and useful improvements in printing-presses, especially to that class of press known as the "Gordon" press; and it consists in certain features of novelty in the detail construction and arrangements of parts, all as hereinafter more fully described, and specifically pointed out in the claims.

The object of the invention is to provide simple, convenient, durable, and easily-operated means which are adapted to coöperate with the inking-rollers for causing said rollers to travel at a distance from the face of type, which may be contained in a frame locked to the type-bed of the press, the object being to permit the placing of a new supply of ink upon the rotatable ink-plate while the press is in operation and evenly distribute said ink over the surface of said ink-plate without removing the frame containing type from the press.

Referring to the accompanying drawings, in which similar numerals of reference indicate corresponding parts in all the views, Figure 1 is a side elevational view showing a general construction of frame for a Gordon press with the device comprising the present invention attached thereto. Fig. 2 is a central vertical sectional view of Fig. 1. Fig. 3 is a plan view of the parts immediately related to the present invention. Fig. 4 is a sectional view taken approximately on line 4-4 of Fig. 1, and Fig. 5 is a detached detail view of one of the bearing-plates hereinafter referred to.

Referring to the parts, 1 indicates the fixed frame portion of the press, to which is pivotally connected the swinging frame portion 2, the part 2 of the press being pivoted at 3 to the main frame thereof. Carried by the portion 2 of the press is the ink-plate 4, which is of common construction, comprising concentric sections which are rotated by means of gearing 5, as is common with presses of this type. Adjacent to the type-bed 6 there are

plates 7, which plates are preferably of greater width at their upper portion, and in the wider upper portion thereof there are provided slots 8, which extend transversely of said plates, while other slots 9 are provided therein, which slots extend from the bottom upwardly in approximately vertical lines for a portion of their length and then turn obliquely forwardly, as shown in Figs. 1 and 5. Projecting laterally from the frame member 2 are pins 10, which are received by the cam-shaped slots 9 in the plate 7. Extending transversely of the press in convenient proximity to the ink-plate 4 is a shaft 11, which is held in suitable bearings 12, mounted upon the frame, as shown. Upon opposite ends of the shaft 11 there are provided disks 13, from which project the laterally-extending pins 14, which pins are received in the approximately horizontal slots 8 in said member 7.

As the pins 14 are set eccentrically on the disks 13, it is evident that rotation of the shaft 11 will lift the plates 7 in the direction indicated by the arrow 15, whereupon the pins 10, riding in the slots 9 referred to, will cause said plates 7 to project forwardly and relatively beyond the face of the type held in the type-frame 18, (shown in Fig. 2,) and as the inking-rollers 19 are of sufficient length to bear at their end portions upon said plates 7 it is evident that when said plates 7 are thrown to their upward and forward position said inking-rollers 19 will travel upon the forward edges of said plates and be out of contact with the faces of the type held in said type-frame upon the type-bed 6.

To rock the shaft 11, a lug 20 is rigidly secured to said shaft 11, and a link 21 connects said lug 20 with a bell-crank lever 22. To the horizontal arm 23 of said bell-crank lever there is connected a rod 24, which rod extends downwardly therefrom and is pivotally connected with the lever 25, which lever is pivotally mounted at 26 either upon a pin projecting from the frame or upon a convenient shaft provided by the press mechanism.

The forward end 25^a of the rod 25 projects beyond the frame 1 and may be readily manipulated by the operator of the press when desired to throw the plates 7 forwardly for the purpose described, and after the ink has been properly distributed by the passage of the rollers 19 over the ink-plate 4 the forward end of the lever 25 may be manipulated to restore the disks 13 and plates 7 to their nor-

mal position, so that said inking-rollers 19 may contact with the faces of type locked in the type-frame referred to.

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

1. In a device of the character described, the combination comprising a type-bed, movable bearer-plates disposed on the bed and
10 provided with a plurality of cam-shaped slots, ink-rolls adapted to travel on the bearer-plates, guide-pins on the bed disposed to project into the cam-shaped slots, and means for moving the bearer-plates.

15 2. In a device of the character described, the combination comprising a type-bed, movable bearer-plates disposed on the bed and provided with slots in their upper ends, ink-rolls adapted to travel on the bearer-plates,
20 guiding means disposed on the bed and cooperating with the bearer-plates, a shaft disposed adjacent the bed, means connecting

the shaft with the slots in the bearer-plates, and means for rocking the shaft.

3. In a printing-press, a type-bed, pins projecting laterally in proximity to said type-bed, plates having cam-shaped slots into which said pins project, there being approximately horizontal slots in said plates, a shaft approximately parallel with the face of said
25 type-bed, eccentric means thereon projecting into said horizontal slots, a lug rigidly connected with said shaft, a bell-crank lever, a link connecting said bell-crank lever with
30 said lug, a rod connected with said bell-crank lever, and a pivoted lever connected with
35 said rod.

In witness whereof I have hereunto set my hand in the presence of two witnesses.

JOSEPH EMILE ROY.

Witnesses:

FREDERICK H. GIBBS,
N. HENDERSON.