

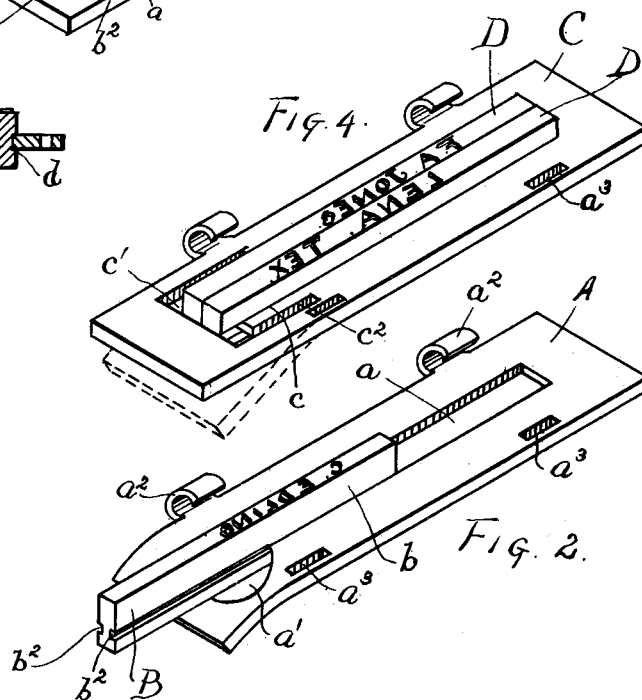
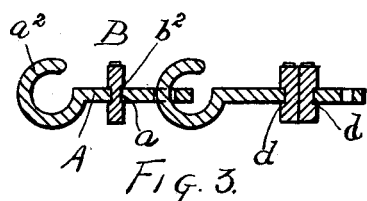
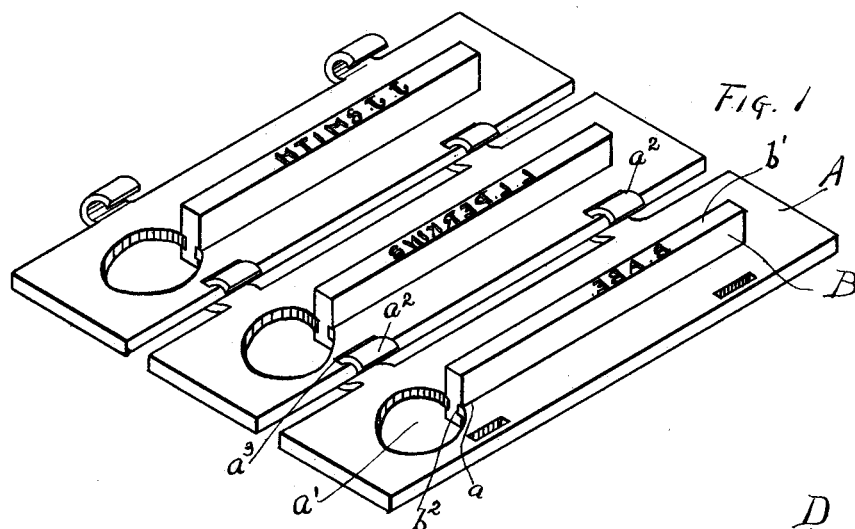
No. 675,898.

Patented June 11, 1901.

R. MAXWELL.  
PRINTING PLATE.

(Application filed Sept. 25, 1900.)

(No Model.)



WITNESSES.

Leroy L. Perrine,  
Annie L. Greer.

INVENTOR.

Robert Maxwell  
By Rich<sup>d</sup> Manning  
ATTY

# UNITED STATES PATENT OFFICE.

ROBERT MAXWELL, OF TOPEKA, KANSAS, ASSIGNOR OF ONE-HALF TO  
JOSEPH F. KIRKPATRICK, OF SAME PLACE.

## PRINTING-PLATE.

SPECIFICATION forming part of Letters Patent No. 675,898, dated June 11, 1901.

Application filed September 25, 1900. Serial No. 31,091. (No model.)

*To all whom it may concern:*

Be it known that I, ROBERT MAXWELL, a citizen of the United States of America, residing at Topeka, in the county of Shawnee and State of Kansas, have invented certain new and useful Improvements in Printing-Plates; and I do hereby declare that the following is a full, clear, and exact description of the invention, such as will enable others to make and use the same, reference being had to the accompanying drawings, forming a part of this specification.

The objects of my invention primarily are the novel means whereby type-bodies and also forms commonly employed in a linotype-machine may be readily attached to the articulated printing-plates of an address-holding machine, and, second, the support of one type-form by another in the holding-plate.

The invention is especially adapted to be used in the address-printing machine for which I made application for Letters Patent of the United States on the 21st day of May, A. D. 1900, Serial No. 17,457.

The invention consists in the novel construction and combination of parts, such as will be first fully described and then specifically pointed out in the claims.

In the drawings, Figure 1 is a view in perspective of a series of articulated holding-plates, showing the invention applied thereto. Fig. 2 is a perspective view in detail of one of the novel holding-plates, showing one of the type-forms partially withdrawn from the slot in the plate. Fig. 3 is a sectional view of the articulated holding-plates as seen in Figs. 1 and 4. Fig. 4 is a view of an alternate construction of the holding-plates.

Referring to the drawings, A represents a flexible form-carrying plate which is made from a flat piece of brass or other material capable of being bent and is narrow in width and of suitable length. In the plate A is a longitudinal slot *a*, extending to within a short distance of each end of said plate. At one end of plate A, at the termination of the slot *a*, is a circular opening *a'*, of considerable size, communicating with said slot.

B represents the longitudinal type forms or bodies such as are commonly made in a

linotype-machine, consisting of the thin strip of metal *b*, having the type *b'* upon its upper edge, as seen in Figs. 1 and 2. In the sides of the strip *b*, at a point midway the upper and lower edges of the strip, are longitudinal grooves *b<sup>2</sup>*, which are of the proper width to admit the thickness of the plate A.

The type-forms B are shorter in length than the plate A and preferably of the same length as the slot *a*. Upon the forward edge of the plate A are separate outwardly-extended strips *a<sup>2</sup>* *a<sup>3</sup>*, which are bent upwardly in the arc of a circle to form hooks, and near the rear edge of each plate are narrow slots or openings *a<sup>3</sup>* *a<sup>3</sup>*, by means of which the separate plates A in the series of plates, as seen in Fig. 1, are connected one with another.

In order to connect the type-form B with the plate A, the end of plate A having the opening *a'* is bent downwardly in position a short distance upon the line transverse to the point of communication of the slot *a* and the said opening *a'* and one end of the type-form inserted within the slot *a*, the side of said slot *a* entering the grooves *b<sup>2</sup>* *b<sup>2</sup>* on each side of the type-form B, and the form is then pushed inwardly until the end of the form comes into contact with the end of the slot. The end of the plate admitting the type-form is then bent upwardly in the plane of the said plate.

In Fig. 4 are shown two type-forms D D in a parallel position, one form having for address-printing machines the name of the address in type upon its upper edge and supplemented by another having the post-office address in type upon its upper edge. In this arrangement the longitudinal slot *c* in the flat plate C is made of increased width to that of slot *a* in plate A, so as to accommodate the parallel type-forms D D, these forms, as shown, having the groove *d* upon one side only and at the same distance upwardly from the lower edge of the type-form as in the type-form B.

In one end of plate C and at the termination of the slot *c* is a transverse opening *c'*. In the plate C, extending a short distance in a longitudinal direction of the plate on each side of the type-forms D D and also from the

ends of the transverse opening  $c'$ , are the openings or slots  $c^2 c^2$ . In order to insert the type-forms D D, the end of the plate C having opening  $c'$  is bent downwardly on a line 5 transverse with the rear ends of slots  $c^2$ , as indicated in dotted lines in Fig. 4, and the forms inserted in the slot  $c$ , the edges of the slot entering the groove in the outer sides of each form, and thus binding the inner sides 10 of the form close to each other in position, as shown on Figs. 3 and 4. Upon the bending upwardly of the end of the plate  $c$  in the plane of the said plate the outer edge of slot  $c'$  is nearly in contact with the outer end of 15 the forms D D and retains said forms from longitudinal movement.

The lower edges, which extend downwardly from the under side of the type-forms, afford means for the engagement with the ordinary 20 sprocket-wheels of the address-printing machines and when inserted in the grooves of the wheel will impart regularity to the movement of a series of holding-plates flexibly connected or articulated. The grooves in the 25 type-body may, however, be made close in position to the lower edge of the type-body, if preferred, and the construction of the holding-

plate C adapts it to receive the single type-form without modification of the invention.

Having fully described my invention, what 30 I now claim as new, and desire to secure by Letters Patent, is—

1. A flexible holding-plate for type-bodies said plate having a longitudinal slot and a transverse opening at one end communicating 35 with said slot.

2. The combination, with a flexible holding-plate having a longitudinal slot and a transverse opening in one end of said plate communicating with said slot, of a grooved 40 type-body inserted in said slot substantially as described.

3. A holding-plate having a longitudinal slot and a transverse opening at one end communicating with said slot in combination with 45 one or more detachable type-forms supported by said plate within said slot, said holding-plate having a flexible end for securing the type-form.

ROBERT MAXWELL.

Witnesses:

H. J. WINGART,  
FOREST HUGHES.