A. N. KELLOGG.

Means for Holding Stereotype Plates.

No. 208,181. Patented Sept. 17, 1878.

FIG. 1.

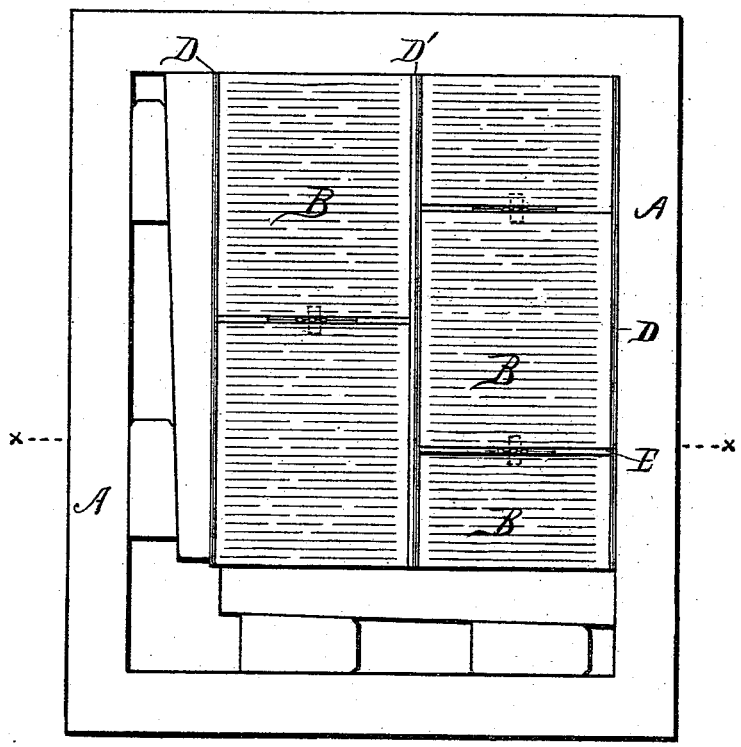


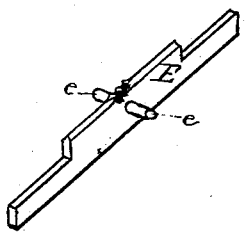
FIG. 2.

WITNESSES:

Forde R. Smith

Raymond Bliss

FIG. 3.



INVENTOR:

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UNITED STATES PATENT OFFICE.

ANSEL N. KELLOGG, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN MEANS FOR HOLDING STEREOTYPE-PLATES.

Specification forming part of Letters Patent No. **208,181**, dated September 17, 1878; application filed May 4, 1878.

To all whom it may concern:

Be it known that I, ANSEL N. KELLOGG, of Chicago, in the county of Cook and State of Illinois, have invented certain Improvements in Means for Holding Stereotype-Plates, of which the following is a specification:

In the Letters Patent to me of February 15, 1876, I described an invention designed to facilitate changes in portions of the matter without unlocking the form or removing it from the press, the same consisting, essentially, of the combination, in a printer's form, of a foundation or abutment block of sufficient horizontal dimensions to lock in the form, and of sufficient depth to afford bearings at ends and sides for the contiguous matter, and a loose removable type-block supported by the abutment-block, and of somewhat smaller dimensions, so as to be loose and removable from the form, wherein it is held by its own weight. While possessing great utility, that improvement is chiefly useful in cases where rapidity of change is desired.

In the present invention, which is also designed to permit the same abutment-block to be used as a mounting for a series of different type-plates, but where a saving of metal in the latter is more desirable than rapidity in changing the form, instead of relying upon the weight of the type-blocks to keep them in place, I make them of such lateral dimensions that they will be grasped by the column-rules when locked in the form and held by friction therewith. This manner of securing them enables me to reduce their weight and thickness and to economize greatly the metal used in their construction.

The invention may be used in a page all of blocks, as described below, or partly of type.

The accompanying drawing shows, at Figure 1, a plan view of a two-column form, made up after the present invention. Fig. 2 is a cross-section thereof on the line *x x* of Fig. 1. Fig. 3 is a perspective of the division-dash employed in combination with the other parts of my invention.

Like letters indicate like parts wherever used in the several figures.

In said drawing, A represents the chase in which the form is locked. B B are the type blocks or plates, and C C the abutment-blocks.

As noticed in Fig. 2, the type-blocks are about one-third and the abutment-blocks about two-thirds type-high. These relative dimensions are not essential, however, as my invention permits the use of type-blocks of even less thickness than is shown. The abutment-blocks should be preferably of such horizontal dimensions as to be held securely in the form by pressure at both ends and sides; but they may be otherwise secured. The type-blocks are secured by friction with the sides only, being short enough to avoid the end pressure, and thus obviate the bowing which would result to such thin plates if they were long enough to feel said end pressure.

Inasmuch as the chase and side-sticks as usually constructed do not come sufficiently high to give a side bearing to the type-blocks in the outside columns of the form, I employ at the sides of the form sticks D a little lower than the column-rules, so that they will give no impression, and bevel them off upon one side, as shown, to avoid their being inked and soiling the paper in the printing. The usual column-rules D′ are employed at other places in the form, as customary.

The abutment-blocks will, of course, vary in length from the type-blocks, and it thus becomes necessary to secure the division-dashes, which do not reach to the bottom of the form, by some means other than friction, because my invention does not contemplate pressure upon the type-blocks from the ends of the columns. The means I have adopted to secure these shallow dashes E are projections *e* standing out from either side, as shown in Fig. 3, and adapted to enter the openings *b* made in the type-plates.

If preferred, the projections may be made so as to lock under the arches of the type-blocks, and but one projection is absolutely necessary. When made as shown, these dashes also serve the purpose of securing any plate that may, by imperfect construction, not be held by the side friction.

What I claim is—

The combination of the ordinary straight vertical sided column-rules, side-sticks, or chase, a type block or plate, and an abutment-block upon which to rest said plate, said plate coming in contact and being held in the form by friction with said column-rules, side-sticks, or chase, substantially as set forth.

A. N. KELLOGG.

Witnesses:

E. E. PRATT,

W. H. THOMSON.