W. J. F. MAIDHOF.

PRINTING FORM.

APPLICATION FILED AUG. 18, 1911.

1,066,932. Patented July 8, 1913.

Fig. 1. Fig. 2. Fig. 3.

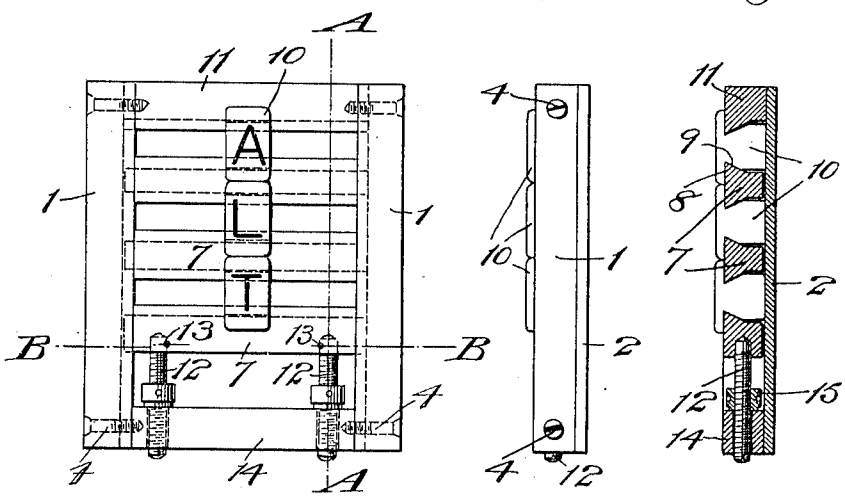
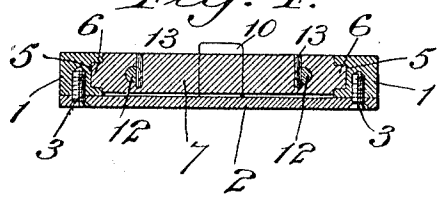


Fig. 4.



Witnesses:-

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UNITED STATES PATENT OFFICE.

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PRINTING-FORM.

1,066,932. Specification of Letters Patent. Patented July 8, 1913.

Original application filed October 6, 1909, Serial No. 521,355. Divided and this application filed August 18, 1911. Serial No. 644,796.

To all whom it may concern:

Be it known that I, WILLIAM J. F. MAIDHOF, a citizen of the United States, and resident of the borough of Bronx, in the city and State of New York, have invented a new and useful Improvement in Printing-Forms, of which the following is a specification.

This invention relates to printing forms, with the object in view of providing novel means for supporting the bases of the type blocks whereby a clearer and more precise printing effect may be obtained.

Another object is to provide a novel means for firmly securing and adjusting the type blocks in the printing frame or chase.

A further object is to provide certain improvements in the form, construction and arrangement of the several parts whereby the above-mentioned objects may be more effectively carried out.

This application is a division of my prior application Serial No. 521355, filed October 6, 1909, and now United States Patent No. 1,003,482, dated September 19, 1911.

A practical embodiment of my invention is represented in the accompanying drawings, in which—

Figure 1 represents a face view of the printing form with a series of type blocks secured therein, Fig. 2 represents an edge view of the same, Fig. 3 represents a section taken in the plane of the line A—A of Fig. 1, and Fig. 4 represents a section taken in the plane of the line B—B of Fig. 1.

The printing frame or chase is denoted by 1 and it is provided with a back plate 2 secured thereto by screws 3. The printing frame is shown in the present instance as rectangular in form and its members are held together by screws 4. Two opposite side members of the frame are provided with undercut grooves 5 fitted to receive the tongues 6 of the spacing bars 7, thus holding the said spacing bars in sliding engagement with the frame 1. These spacing bars are provided at their tops with lateral extensions 8 fitted to engage recesses 9 in the type blocks 10 for holding the type blocks against removal from the frame with their bases against the back plate 2. One end member 11 of the frame forms a fixed spacing bar.

Adjusting screws 12 are pinned at 13 to the adjustable spacing bar 7 adjacent to the end member 14 of the frame. These screws are held in position by the member 14 and are provided with nuts 15 bearing against the member 14.

In operation, the turning of the nuts 15 in one direction will cause the adjustable spacing bars 7 to clamp the type blocks 10 firmly in position between the spacing bars with the bases of the top blocks resting on the back plate 2. When the nuts 15 are turned in the reverse direction, the adjustable spacing bars may be separated sufficiently to permit the removal of the blocks and the insertion of other blocks, as may be desired.

It will be seen that a great variety both in number and size of type blocks may be used in connection with my apparatus and that any desired relative arrangement of the type block may be obtained. Furthermore, the fact that the chase or frame is provided with a back plate on which the bases of the type blocks rest, provides a very firm and unyielding printing form with the result that the characters upon the type blocks are printed upon the desired material in a clear and more precise condition than has heretofore been obtainable.

It is to be understood that by the term "type blocks" any printing block is included.

It is evident that various changes might be resorted to in the form, construction and arrangement of the several parts without departing from the spirit and scope of my invention; hence I do not wish to limit myself strictly to the structure herein set forth, but

What I claim is:—

1. A printing form comprising a chase or frame having a back plate, fixed and adjustable spacing bars provided with a tongue and groove engagement with the chase and adjusting screws slidable in the chase and secured to move with the adjacent adjustable bar for moving the adjustable bar toward the fixed bar.

2. A printing form comprising a chase or frame having a back plate, a fixed spacing bar, a plurality of adjustable spacing bars provided with a tongue and groove engagement with the chase and adjusting screws engaging the chase and secured to the adjacent adjustable bar for moving it and thereby the other adjustable bars into locking engagement with the type blocks.

3. A printing form comprising a chase or frame having a back plate, fixed and adjustable spacing bars provided with a tongue and groove engagement with the chase, adjusting screws having a sliding engagement with the chase and a fixed engagement with the adjacent adjustable spacing bar and nuts carried by the screws for moving the screws and thereby the adjustable spacing bar into clamping engagement with the type blocks.

4. A printing form comprising a chase or frame composed of a back and side and end members secured thereto, one end member forming a fixed spacing bar, a plurality of adjustable spacing bars having a tongue and groove sliding engagement with the side members and adjusting screws interposed between an end member and an adjacent adjustable bar.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two witnesses, this sixteenth day of August 1911.

WILLIAM J. F. MAIDHOF.

Witnesses:
F. GEORGE BARRY,
HENRY C. THIEME.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."