

W. S. WARNOCK.
 PRINTING PLATE FOUNDATION.
 APPLICATION FILED SEPT. 3, 1907.

935,073.

Patented Sept. 28, 1909.

Fig. 1.

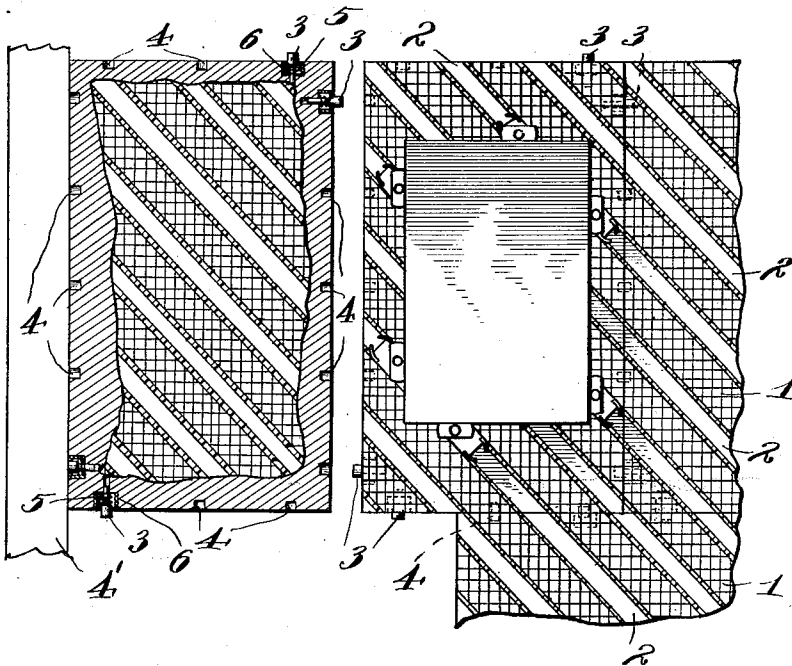


Fig. 2.

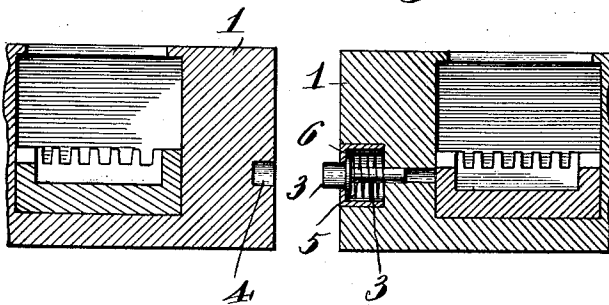
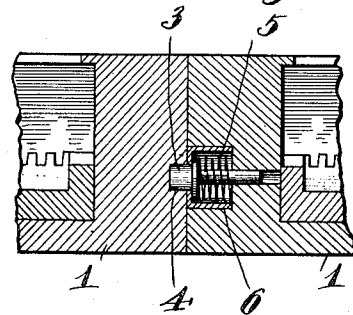


Fig. 3.



Witnesses:
 J. A. Pauberschmidt
 L. S. Strook

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 Atty

UNITED STATES PATENT OFFICE.

WALLACE S. WARNOCK, OF CHICAGO, ILLINOIS.

PRINTING-PLATE FOUNDATION.

935,073.

Specification of Letters Patent. Patented Sept. 28, 1909.

Application filed September 3, 1907. Serial No. 391,135.

To all whom it may concern:

Be it known that I, WALLACE S. WARNOCK, citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Printing-Plate Foundations, of which the following is a full, clear, concise, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to printing bed foundations that are preferably grooved to receive clamping devices for holding printing plates upon said foundations, and which foundations comprise separately formed blocks which are assembled to constitute the foundation.

I will explain my invention more fully by reference to the accompanying drawing, showing the preferred embodiment thereof, in which—

Figure 1 is a view of so much of a printing plate foundation constructed in accordance with my invention as is necessary to render an understanding of the invention clear. Fig. 2 shows adjacent portions of two contiguous blocks in separated relation. Fig. 3 is a view similar to Fig. 2 showing the blocks in locking relation.

Like parts are indicated by similar characters of reference throughout the different figures.

The plate foundation is formed of a number of separately constructed relatively and bodily movable blocks 1, which may be grooved in any preferred manner, these blocks being illustrated with diagonal grooves 2, to which direction of grooving, however, I do not wish to be limited. There is provided at two diagonally opposite corners of each block, a pair of locking devices 3 in the form of dowels, these dowels projecting from vertical sides of the blocks. There are distributed along the sides of the blocks, a number of dowel receiving apertures 4, so located that when any aperture is in receipt of a dowel, the grooves 2 in one of the blocks are in perfect alinement with the adjacent grooves 2 of the other block. In order that the blocks may be snugly engaged with the chase 4', or with printers' furniture, the dowels are so constructed that they may disappear, the construction for this purpose being well illustrated in Figs. 2 and 3, wherein the inner end of the dowel is

shouldered and engages a thrusting spring 5 adapted, when unopposed, to thrust the dowel outwardly, a cup 6 with its bottom flush with the external surface of the block 1, being inserted in a recess, the cup constituting a barrel for said spring 5. Not only may printers' furniture be permitted snugly to engage the blocks by reason of the disappearing dowels, but said blocks may be moved readily past each other until they are brought into proper position, whereupon the spring 5 will thrust the dowel 3 into a dowel receiving aperture 4. It will be observed that when the recesses 4 are in receipt of dowels 3, not only will the grooves in the associate blocks be maintained in alinement, but that one block will be prevented from rising with reference to another.

It will be seen that I have provided a printing plate foundation formed of a number of blocks grooved to receive plate-clamping devices, each block having all of its vertical sides provided with dowels and dowel-receiving recesses for maintaining grooves in one block in alinement with grooves in an adjacent block, each dowel being surrounded by a cup or barrel received into the associate block, each cup or barrel permitting the dowel to recede therein and containing a spring for pressing the dowel outwardly.

I have not deemed it necessary to describe any of the clamping devices and facilities as these are now well known in the art.

I have shown herein the style of plate-clamping mechanism and foundation block disclosed in my application Serial No. 308,121, filed March 26, 1906, in which copending application I have made claims upon such plate clamping mechanism and foundation block. I have also shown herein certain structural characteristics that are disclosed and claimed in my copending application Serial No. 231,362, filed November 4, 1904. The claims in the present case are based upon the dowel pin and block construction.

I use the term "spring pressed" dowels in the sense of dowels that are adapted to be thrust outwardly by spring mechanism when the outer movement of said dowels is not resisted, but which dowels may readily be depressed. I do not wish to be understood as limiting myself to the precise location of the spring mechanism, as any spring mechanism which will normally thrust the dowels outwardly but permit the dowels

to be thrust inwardly, I consider to come within the scope of my invention and within the scope of the said term.

5 While I have herein shown and particularly described the preferred embodiment of my invention, I do not wish to be limited to the precise construction shown, but,

10 Having thus described my invention, I claim as new and desire to secure by Letters-Patent the following:—

15 1. A printing plate foundation formed of a number of blocks grooved to receive plate-clamping devices, each block having all of its vertical sides provided with dowels and
dowel-receiving recesses for maintaining
grooves in one block in alinement with
grooves in an adjacent block, each dowel
being surrounded by a cup or barrel re-
ceived into the associate block, each cup or

barrel permitting the dowel to recede therein 20
and containing a spring for pressing the
dowel outwardly.

2. A printing plate foundation formed
of a number of blocks, each block having
all of its vertical sides provided with dowels 25
and dowel-receiving recesses, each dowel be-
ing surrounded by a cup or barrel received
into the associate block, each cup or barrel
permitting the dowel to recede therein and
containing a spring for pressing the dowel 30
outwardly.

In witness whereof, I hereunto subscribe
my name this 31st day of August A. D., 1907.

WALLACE S. WARNOCK.

Witnesses:

L. G. STROH,
G. L. CRAGG.