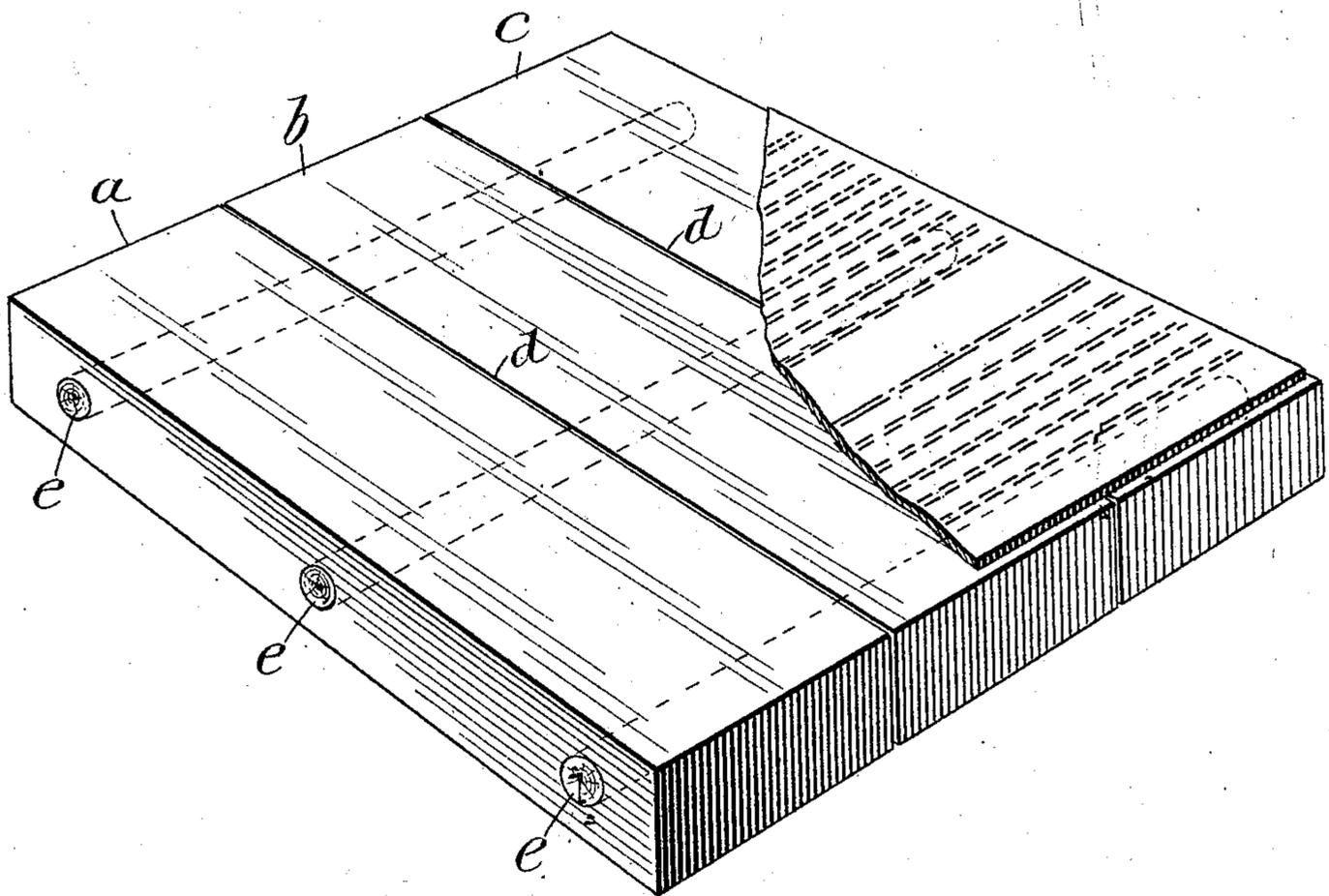


No. 842,198.

PATENTED JAN. 29, 1907.

A. W. HARRISON.
MOUNTING BLOCK FOR PRINTING PLATES.
APPLICATION FILED MAR. 24, 1906.



Witnesses:
D. W. Edlin.
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UNITED STATES PATENT OFFICE.

ALBERT W. HARRISON, OF BALTIMORE, MARYLAND

MOUNTING-BLOCK FOR PRINTING-PLATES.

No. 842,198.

Specification of Letters Patent.

Patented Jan. 29, 1907.

Application filed March 24, 1906. Serial No. 307,847.

To all whom it may concern:

Be it known that I, ALBERT W. HARRISON, of the city of Baltimore and State of Maryland, have invented certain Improvements in Mounting-Blocks for Printing-Plates, of which the following is a specification.

The primary object of this invention is to prevent as far as is possible the distortion of metal printing-plates by the warping of the wood blocks to which they are secured, such distortion being due to changes in temperature and the hygroscopic condition of the air.

A secondary object of the said invention is to counteract the ultimate effect of lateral shrinkage of the wood blocks, as will hereinafter fully appear. With the above objects in view the said invention consists in substituting for a mounting-block in a single piece to which the printing-plate is secured a block formed of a multiplicity of lateral sections which are not connected except by means of dowel-pins which pass entirely through the said sections and held in place by friction only, the ends of the dowel-pins being flush with the lateral edges of the block. By this construction the warping of the mounting-blocks in ordinary circumstances is practically reduced to a nullity for the reason that the block is a flexible device whose surface will conform to that of the printing-plate, the dowel-pins admitting of the movement of each section of the block independently of the others.

In the further description of the said invention which follows reference is made to the accompanying drawing, forming a part hereof and which is a perspective view of a printing-plate mounted upon a block constructed in accordance with the present invention, a part of the printing-plate being cut away to show the wood block beneath.

Referring now to the drawing, the wood mounting-block is shown as formed of three sections *a*, *b*, and *c*, the grain of the wood extending longitudinally of the sections. The adjacent sides of the sections are not in absolute contact, there being minute spaces be-

tween them. These spaces are designated by *d*. The sections *a*, *b*, and *c* are connected by driven dowel-pins *e*, which pass through all the sections, or extend from one side of the block to the other, the ends of the dowel-pins being flush with the lateral edges of the block, and which dowel-pins, owing to the non-shrinkage in their length, represent at all times the original width of the block. Should the block shrink in width, the dowels, not being glued or otherwise fastened to the sections thereof, will merely project slightly beyond the outer sections, and the furniture of the chase in that case will bear against them instead of the sides of the block.

From the foregoing description it will be understood that when a printing-plate mounted upon the improved block is once locked in a chase it will not become loose by shrinkage of the wood, as the only change effected by the shrinkage is the withdrawal of the outer sections of the block from the furniture of the chase.

I claim as my invention—

1. A wood mounting-block for a printing-plate, which consists of a multiplicity of lateral unattached sections, connected only by dowel-pins which are driven through, without being secured to, all the sections, the ends of the dowel-pins being flush with the lateral edges of the block, and against which the furniture bears independently of the sections in locking up the form, as and for the purpose specified.

2. A wood mounting-block for a printing-plate, which consists of a multiplicity of lateral sections connected by dowel-pins which are driven through, without attachment to, all the sections, and extending from one side of the block to the other, there being spaces between the adjacent edges of the said sections, substantially as, and for the purpose specified.

ALBERT W. HARRISON.

Witnesses:

THOMAS G. HULL,
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