Feb. 28, 1939. R. T. ROBY 2,149,072

MORTISE LOCK FOR PRINTING BLOCKS

Filed July 11, 1938

Fig. 1.

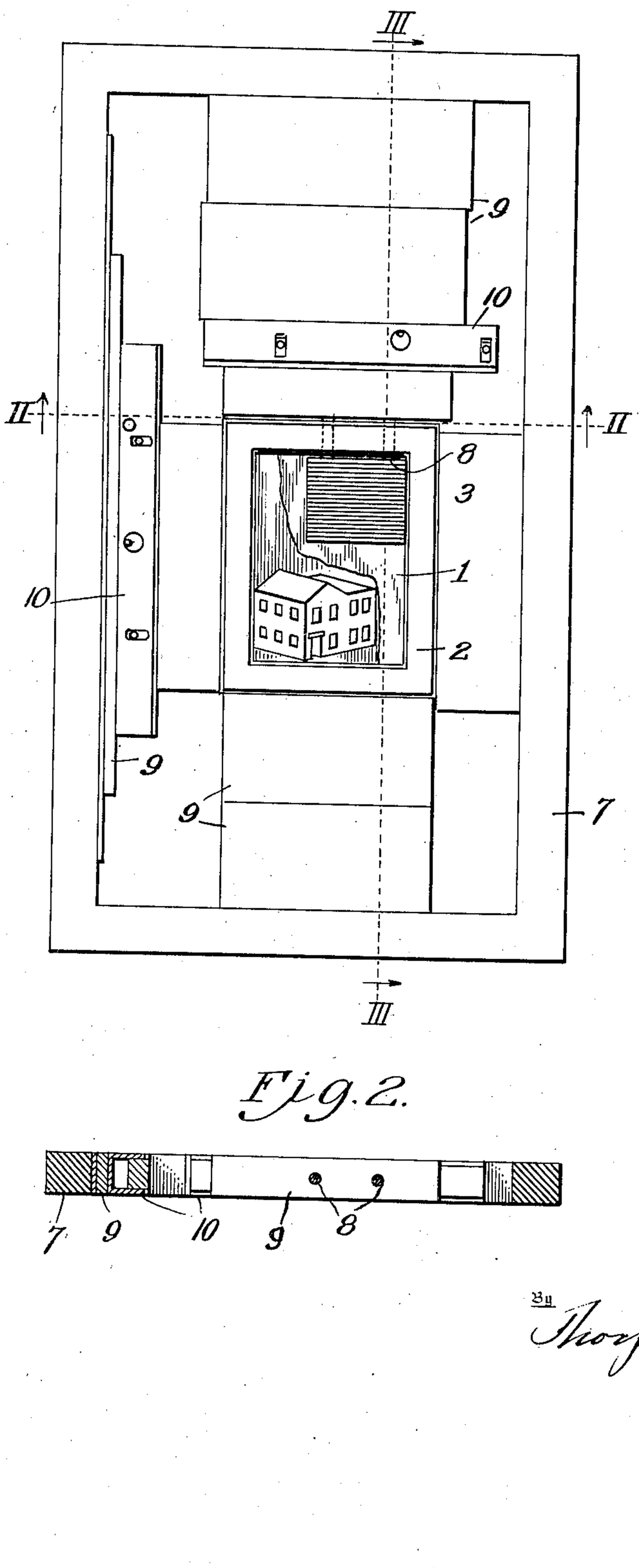

Fig. 3.

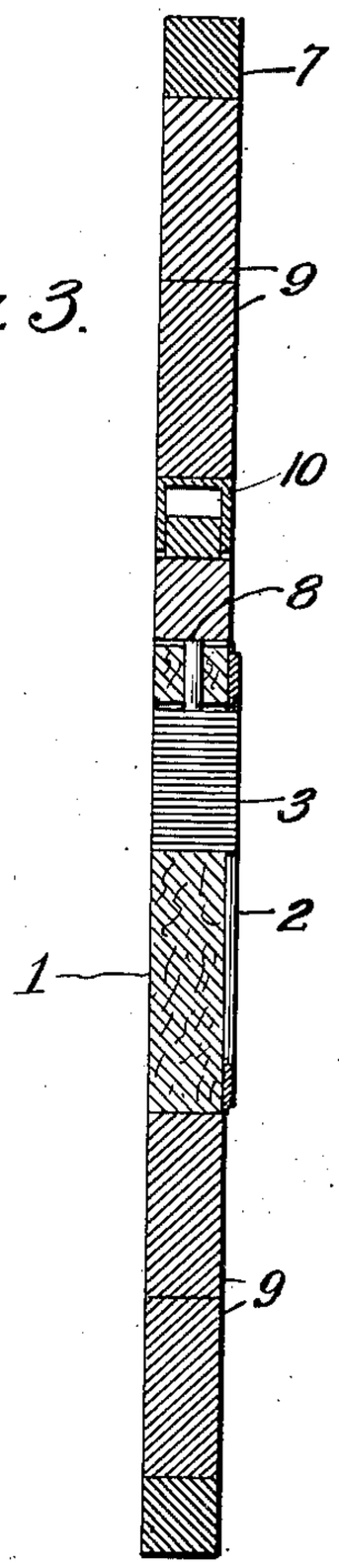

Fig. 2.

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MORTISE LOCK FOR PRINTING BLOCKS

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3 Claims. (Cl. 101—394)

This invention relates to printing blocks, such as electrotype cuts and the like, usually involving a wooden base block to which a cut is attached by tacks or is otherwise fastened, the cut and block having a mortise opening to receive replaceable type, slugs or cuts. Cuts or illustrations or displays of this kind are of a more or less permanent nature, being used over and over, with a different set up of type or display in the mortise opening. It is quite a task to set the type and wedge it in the mortise against the vibration of a printing press, and a great deal of time is consumed in the work, and this work must frequently be done over again as a result of changes in the display after the submission of proofs.

The general object of the present invention, therefore, is to provide means for the clamping of type, type slugs or cuts in the mortise opening, in such manner that they are reliably held in alinement against press vibrations and the like.

A further object of the invention is to produce a construction in which the operation of locking the type block in a chase, simultaneously locks the printing type, type slug or cut in the mortise of the type block, whereby a great deal of time is saved in the locking or make-up of a form.

A still further object of the invention is to produce a device of the character described which is of strong, durable, efficient and inexpensive construction; and in order that it may be fully understood, reference is to be had to the accompanying drawing, in which:

Figure 1 is a plan view of a printer's chase showing a mortised type block and type slugs locked in position.

Figure 2 is a section on the line II—II of Figure 1.

Figure 3 is a section on the line III—III of Figure 1.

In the said drawing, where like reference characters identify corresponding parts in all of the figures, the type block may be of any common and well-known construction, that shown, involving a wooden base 1 to which an electrotype cut 2 has been tacked as common in the art. The cut 2 is subject to repeated use with different display material, and it is therefore provided with a mortise opening extending through the block or base 1, in which type, type slugs or cuts 3 have heretofore been wedged, the type in alinement and with its printing face flush with the impression face of the cut.

In the present invention, however, I provide one or more apertures extending through a side of the type block and opening into the mortise, and within said apertures I mount any means whereby it is possible to apply pressure on the type, type slugs or cut to clamp and hold them firmly in the mortise simultaneously with the clamping of the type block in the chase.

One simple construction to accomplish this result is illustrated, in which 8 indicates a pair of pins slidably mounted in apertures in the printing block 1 and of such length that their ends normally extend beyond the ends of the aperture. In the use of a printing block so constructed, the chase 7 and the block 1 are laid on a flat surface with the clamping members or pins 8 having their inner ends flush with the wall of the mortise. The type, type slugs or cuts 3 are now positioned in the mortise and the block is locked in the chase by means of the usual furniture 9 and quoins 10. The pressure applied by the furniture and quoin against the ends of the locking members 8 simultaneously lock the type, type slugs or cuts 3 in the mortise opening, and this pressure is transmitted through the type block 1 to effect the clamping of said block within the chase, as shown in Figure 1. When it is necessary to release the impression producing inserts 3, it is only necessary to release the pressure of the respective quoin, when the inserted material may be readily removed for correction or change.

From the above description it will be apparent that I have produced a construction embodying all the features of advantage set forth as desirable, and while I have illustrated and described the preferred embodiment, it is to be understood that I reserve the right to all changes within the spirit of the invention and without the ambit of the prior art.

I claim:

1. In combination, a printer's chase and a type block, said type block being formed with a mortise opening, type, type slugs or cuts in said mortise opening, expansible means wholly within the chase for reacting in opposite directions against the chase and the type block to clamp the latter in said chase, and means cooperating with the expansible means to simultaneously clamp the type, type slugs or cuts in the mortise opening in the type block.

2. In combination, a printer's chase and a type block, said type block being formed with a mortise opening, and an aperture through a side wall of the block opening into the mortise opening, type, type slugs or cuts in said mortise open-

ing, expansible means wholly within the chase for reacting in opposite directions against the chase and the type block to clamp the latter in said chase, and means longitudinally adjustable through the aperture cooperating with the expansible means to simultaneously clamp the type, type slugs or cuts in the mortise opening in the type block.

3. In combination, a printer's chase and a type block, said type block being formed with a mortise opening and having an aperture through a side wall opening into said mortise opening, expansible means wholly within the chase reacting in opposite directions against the chase and the type block to clamp the latter in said chase, and clamping members normally projecting beyond the ends of the aperture in the type block and actuated by the reaction of the expansible means to clamp the type, type slugs or cuts in said mortise opening in the type block.

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