

Oct. 10, 1933.

H. J. HAMMANN

1,930,009

PRINTING PLATE BASE

Filed Aug. 1, 1932

2 Sheets-Sheet 1

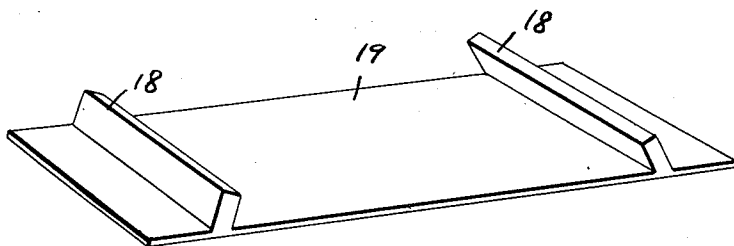
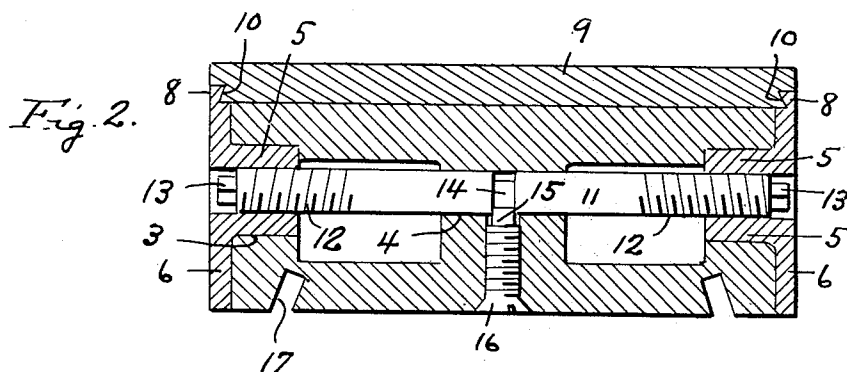
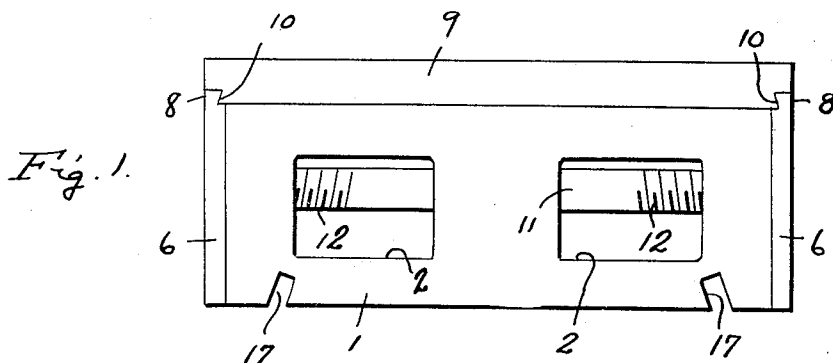


Fig. 3.

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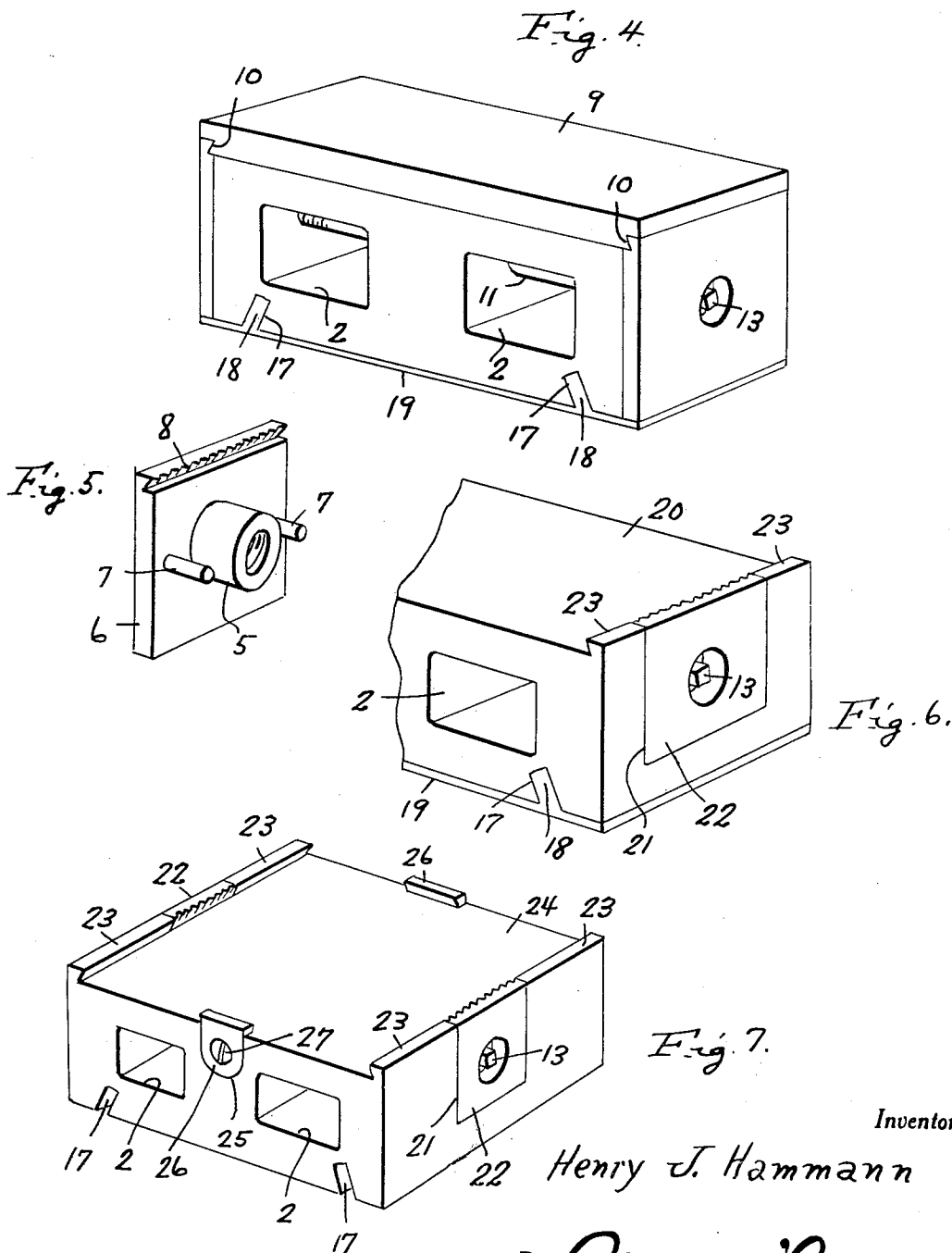
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2 Sheets-Sheet 2



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PRINTING PLATE BASE

Henry J. Hammann, Mount Morris, Ill.

Application August 1, 1932. Serial No. 627,185

2 Claims. (Cl. 101—383)

This invention relates to new and useful improvements in printing plate bases and has for some of its objects to provide, in a manner as hereinafter set forth, a device of this character which will be simple in construction, strong, durable, highly efficient and reliable in use, and which may be manufactured at low cost.

Another important object of the invention is to provide a printing plate base embodying a novel construction, combination and arrangement of parts through the medium of which the plate may be expeditiously and securely mounted in position.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawings wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a view in side elevation of an embodiment of the base in accordance with the present invention, showing a plate secured in position thereon.

Figure 2 is a view in vertical longitudinal section through the base and plate.

Figure 3 is a detail view in perspective of an underlay or shim.

Figure 4 is a perspective view of the base with a plate and underlay or shim thereon.

Figure 5 is a detail view in perspective of one of the clamps.

Figure 6 is a perspective view showing an end portion of another form of the invention.

Figure 7 is a perspective view of still another form of the invention.

Referring now to the drawings in detail, it will be seen that the reference numeral 1 designates a substantially rectangular metal block of suitable dimensions having transverse openings 2 therein. The block 1 is further provided with end sockets 3 which communicate with the openings 2 and with a longitudinal bore 4 which is aligned with the sockets 3 and which establishes communication between the openings 2.

The sockets 3 are for the reception of internally threaded necks 5 on the inner sides of clamping plates 6 which are mounted on the ends of the block 1. The clamps 6 are provided with pins 7 on opposite sides of the necks 5 which are engageable in openings or sockets provided therefor in the ends of the block 1 for preventing rotation of the clamps 6. Integral with the upper edges of the clamps 6 are undercut serrated flanges 8 which grip and secure the plate 9. The

plate 9 is provided with undercuts 10 at its ends for receiving the flanges 8.

Journalled in the bore 4 of the block 1 is a clamping screw 11 having oppositely threaded end portions 12 which are threadedly engaged in the necks 5 for moving the clamps 6 simultaneously away from or toward the block 1. At its ends, the screw 11 terminates in reduced, polygonal heads 13 for engagement by a suitable actuating tool, such as a wrench. At an intermediate point, the clamping screw 11 is provided with a groove 14 for the reception of a reduced lug 15 on the inner end of a securing screw 16 which is threaded into the bottom of the block 1. The screw 16, of course, constitutes means for rotatably retaining the clamping screw 11 in the block 1.

Rising from the bottom of the block 1 are transverse, inwardly inclined grooves 17 which are adjacent the ends of said block. The grooves 17 are for the reception of oppositely inclined flanges 18 which rise from the end portions of an underlay or shim 19 of suitable thickness. Thus, the underlay or shim 19 may be detachably mounted on the bottom of the block 1. The underlay or shim 19 is, of course, of a length and width corresponding to the length and width of the block 1 and clamps 6. Preferably, a number of underlays or shims 19 of various thicknesses are provided.

In use, as will be apparent, the plate 9 is positioned on top of the block 1 after which the screw 11 is actuated in the correct direction to draw the clamps 6 together for securing said plate therebetween, the serrated flanges 8 engaging in the undercuts 10 of the plate. The construction and arrangement which has been provided is such that compression or shrinkage when in use, such as frequently occurs with the wood bases, in widespread use at present, will not occur.

In the form of the invention illustrated in Figure 6, the comparatively wide block 20 has formed in its ends substantially rectangular recesses 21 for the reception of clamps 22 which are substantially similar to the clamps 6 with the exception that the pins 7 may be eliminated. Rising from the ends of the block 20 are undercut flanges 23 beneath which the undercuts of the plate are slipped laterally.

In the form of the invention illustrated in Figure 7 of the drawings, a still wider block 24 is shown, said block being substantially similar to the block 20 except with respect to width. In its sides the block 24 is provided with recesses 25 communicating with its top which receive detachable clamping plates 26 which are secured in position by screws 27. The clamps 26 project above

the block 24 and the upper portions thereof are undercut for engagement with the sides of the plate which is mounted on said block 24.

It is believed that the many advantages of a base constructed in accordance with the present invention will be readily understood, and although the preferred embodiments of the invention are as illustrated and described, it is to be understood that changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:

1. A printing plate base comprising a block, said block having recesses in certain of its walls, undercut flanges rising from the block on opposite sides of the recesses for engagement with the plate, clamps engageable in the recesses for operative engagement with the plate, said clamps including undercut flanges aligned substantially with the block flanges, and means for actuating the clamps simultaneously toward or away from the block.

2. A printing plate comprising a block having recesses in certain of its walls, undercut flanges rising from the block on opposite sides of the recesses, clamps engageable in the recesses, said clamps including undercut flanges aligned with the first named flanges and operatively engaged with the plate, means for actuating the clamps simultaneously toward or away from the block, and detachable clamps mounted on the other walls of the block and engageable with the plate.

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