May 19, 1936. L. F. HEWETT 2,041,289

BLOCK MOLD

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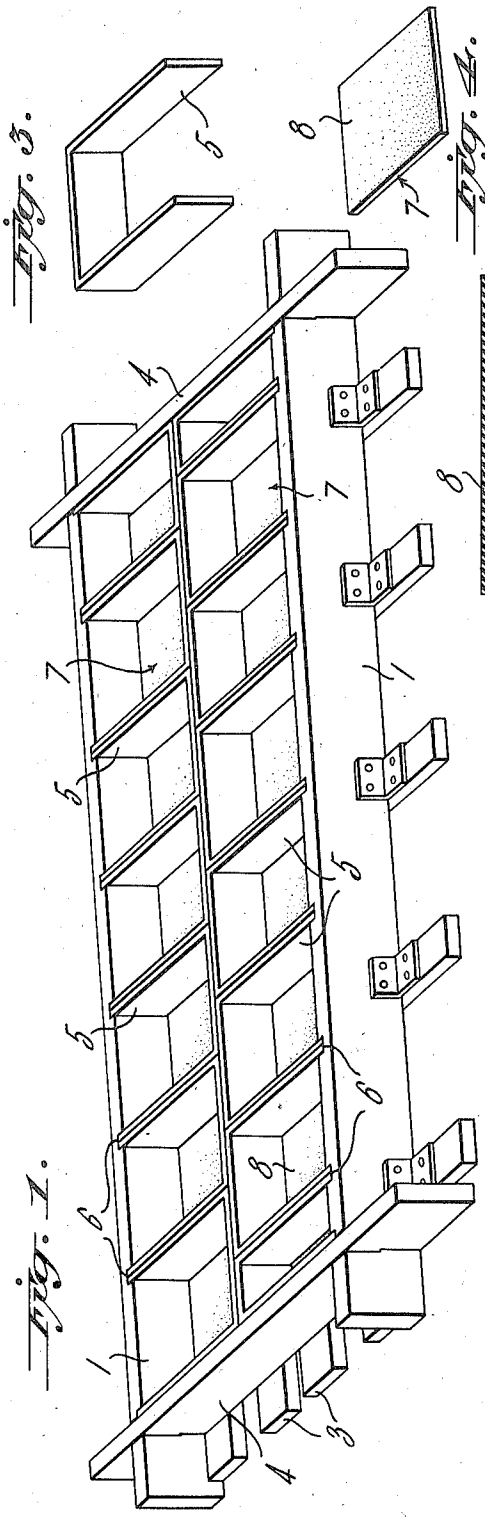


Fig. 1.

Fig. 3.

Fig. 4.

Fig. 5.

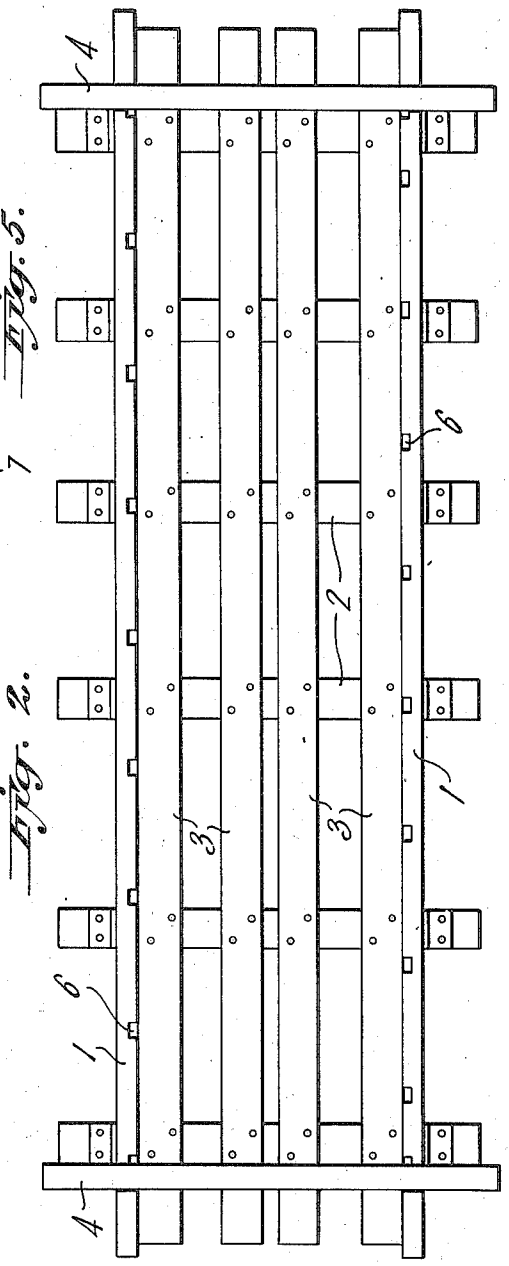


Fig. 2.

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BLOCK MOLD

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Application August 20, 1935, Serial No. 36,976

1 Claim. (Cl. 25—121)

This invention relates to molds and more particularly to molds for forming composite paving blocks of the general type shown in my patent No. 1,885,720. Molded blocks of this character are some times difficult to remove from the mold after they have hardened and one object of the invention is to provide a mold which permits easy removal of the completed blocks.

Another object is to provide a simple and efficient means for locking and unlocking the mold.

A further object is to provide a support which is removable with each block and which provides support during subsequent curing operations.

Still a further object is to arrange a plurality of individual mold elements to provide maximum bracing against load stresses.

Other objects and advantages will in part be stated and in part be obvious when the following specification is read in connection with the drawing, in which:

Fig. 1 is a perspective view of the mold, showing the arrangement of the individual mold forms and the hinged side walls; Fig. 2 is a top plan view of the mold frame; Fig. 3 is a perspective view of a mold form; Fig. 4 is a perspective view of a supporting pallet; and Fig. 5 is a cross section of the pallet, showing the padded upper surface thereof.

Referring in more detail to Fig. 1, there are shown side walls 1 hinged to swing outwardly upon cross members 2. As shown in Fig. 2, a plurality of longitudinal stringers 3 are secured to the cross members. The end walls 4 are provided with a notch near each end thereof which engages with a corresponding notch in the side walls 1 to maintain the walls in vertical position and provide a secure interfitting joint. The individual forms 5 are substantially U shaped and are so disposed within the frame that the web portions lie along the center line thereof with the legs extending outwardly into grooves 6 in the inner surface of the side walls 1. In the preferred embodiment as shown, starting at an end wall 4, seven forms are placed in a longitudinal row. The opposite row consists of a half sized form abutting against either end walls 4 and six intervening full sized forms. Under this arrangement the webs of the larger forms are centrally braced by the abutting leg portions of the opposite row and bulging or deformation under load is prevented. The half size blocks are necessary in pavement construction in order to provide staggered joints at intervals, and in this mold their production not only is facilitated but provides additional bracing to the mold structure. Due to this particular manner of bracing, the mold forms 5 may be made much lighter and more easily handled than heretofore. After the forms 5 are assembled in position the supporting pallets 7 are placed within each form to provide a floor portion. The pallets 7 are provided with a soft padding or facing material on the upper side. As shown in Fig. 5, sponge rubber, burlap, felt, or any compressible material may be used. When a composite block is made, the facing stones are placed on the rubber surface which yields sufficiently to prevent excess mortar from flowing across and obscuring the outer face of the stones. When the blocks are cast and the mold disassembled, the blocks may be left on the pallets with less likelihood of damage during the curing process and subsequent handling than unsupported blocks would have.

It will be obvious that many changes may be made such as in the number and disposition of mold forms, and many other modifications of structure may be readily made by any one skilled in the art, without departing from the spirit and scope of the invention as defined in the following claim:

I claim:

In a block-forming mold, a frame comprising two side walls hinged to swing outwardly, end walls extending across said side walls and cooperating therewith to maintain said side walls in vertical position, a plurality of substantially U-shaped mold forms disposed in parallel longitudinal rows within said frame, the forms comprising one row having the web portions thereof in abutting contact with the web portions of the other row, said web portions being disposed along the longitudinal center line of said frame, and the leg portion of said forms extending outwardly to contact said side walls, and a plurality of half size mold forms so disposed in said frame that the molds comprising one row of forms are in staggered relationship to the molds comprising the other row of said forms.

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