W. E. FROST.

MOLD.

APPLICATION FILED JUNE 5, 1908.

915,283. Patented Mar. 16, 1909.

Fig. 1.

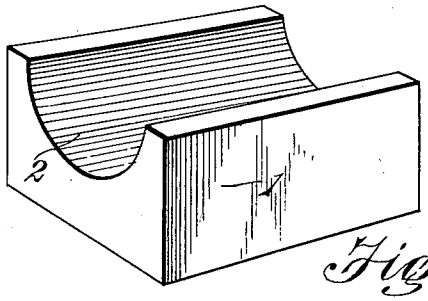


Fig. 4.

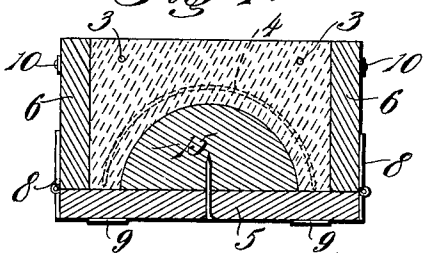


Fig. 2.

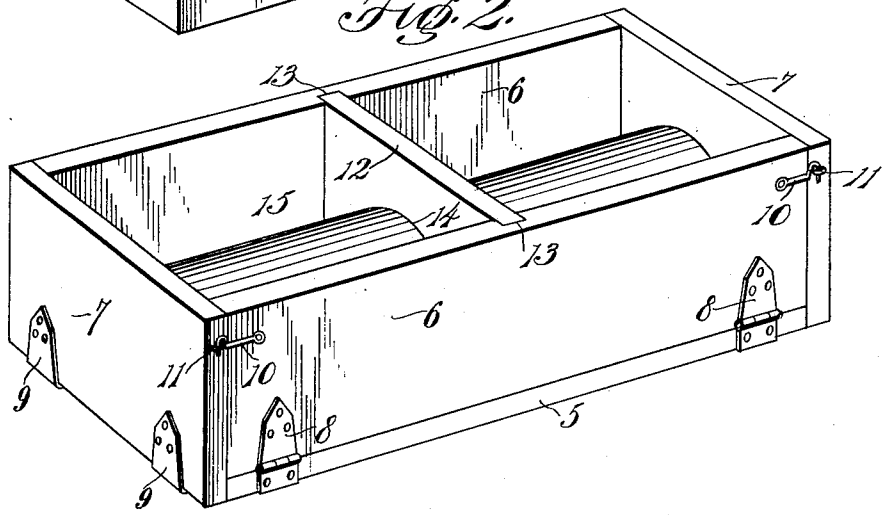
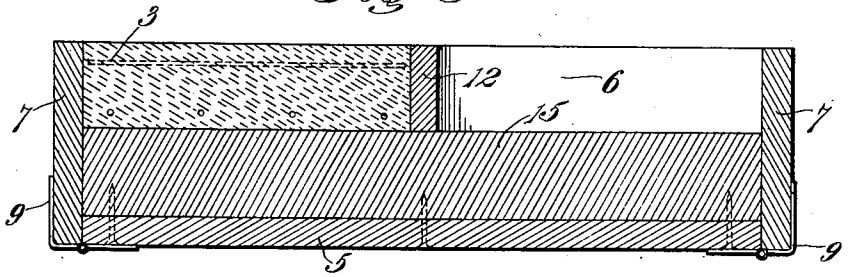


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

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MOLD.

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To all whom it may concern:

Be it known that I, WILLIAM E. FROST, a citizen of the United States, residing at Highland Mills, in the county of Orange and State of New York, have invented certain new and useful Improvements in Molds, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in molds for making blocks of cement, concrete or other plastic material and particularly blocks used in constructing gutters.

My invention further relates to an improved concrete gutter block.

The object of the invention is to provide a simple and practical molding device by means of which my improved gutter blocks may be quickly made.

With the above and other objects in view, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my improved concrete gutter block; Fig. 2 is a similar view of my improved mold for making the blocks; and Figs. 3 and 4 are longitudinal and transverse sectional views through the mold and one of the blocks therein.

My improved gutter block may be molded of cement, concrete or any other suitable plastic material and comprises a substantially rectangular body 1 having in its top a longitudinal channel 2 which extends from end to end of the block and forms a portion of the gutter, in use the blocks being placed end to end so that their channels form a continuous gutter. The block is reinforced by two straight longitudinally extending wires 3 and by two or more longitudinally curved and transversely disposed wires 4 embedded in the block, as clearly illustrated in the drawings.

My improved mold comprises a rectangular base 5 upon the four edges of which are hinged sides 6 and ends 7. The sides 6 are connected to the base by strap hinges 8 so that they swing downwardly and outwardly and when elevated they lie within the plane of the side edges of the base. The ends 7 of the mold are connected by strap hinges 9 to the bottom of the base 5 so that they also swing downwardly and outwardly and when in their vertical position they abut the ends of the sides 6 and the base 5, as illustrated. Pivoted hooks 10 upon the sides 6 are adapted to engage keeper eyes 11 on the ends 7 to hold the mold in its closed position.

The mold corresponds in width to the width of the gutter block and it is preferably made twice as long as the block so that two blocks may be simultaneously formed in it. These blocks are separated by a partition 12 which is removably mounted in opposing vertical grooves 13 formed in the inner faces of the sides 6. In the bottom of said partition or dividing plate 12 is a semi-circular recess 14 adapted to receive a semi-circular rib 15 arranged upon the center of the top of the base 5 so as to form a core which molds the groove or channel 2 in the block. The core 15 extends longitudinally of the base from end to end so that when the sides and ends of the mold are elevated and the partition 12 is in position between the sides the space within the mold will be divided into two compartments each the exact shape of one of the blocks. By hinging the sides and ends of the mold and providing one or more of the partitions 2 two or more blocks may be simultaneously molded and they may be readily removed from the mold after they have set by unfastening the sides and ends and swinging them downwardly to their open position.

In using the mold it is closed and the partition is placed within it and its two sections are then partially filled with plastic material. The reinforcing wires may be then placed in position in the material and the mold filled even with the upper edges of its sides, ends and partition to complete the blocks. After the blocks have become set they may be readily removed as above explained. By embedding the reinforcing wires in the blocks they will be rendered exceedingly strong and durable.

Having thus described my invention what I claim is:

The herein described mold for making gutter tiles comprising a rectangular base, a core secured upon the top of the same and extending longitudinally thereon from end to end, outwardly swinging sides formed in their opposing faces with vertical grooves, hinges for said sides, each hinge having one leaf secured to one of the side edges of the base and its other leaf secured to the outer face of one of said sides whereby the lower edges of the latter will rest upon the top of the base when in their upright position, out-

wardly swinging ends, hinges for said ends each of said hinges having one leaf secured to the bottom face of the base and its other leaf of angular shape and secured to the bottom edge and outer face of one of the ends whereby the latter will engage the ends of the base, sides and core when swung to their upright position, detachable fastenings uniting the upper portions of said sides and ends, and a removable partition having its ends slidably engaged with the opposing grooves in said sides and formed in its bottom with a recess shaped to receive said core.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

WILLIAM E. FROST.

Witnesses:
NATHANIEL LENT,
BELDING S. PEMBLETON.