

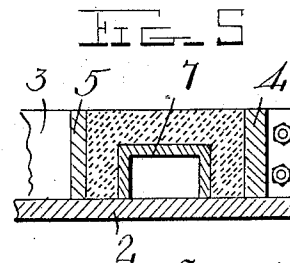
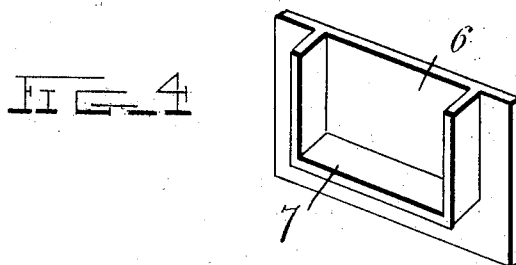
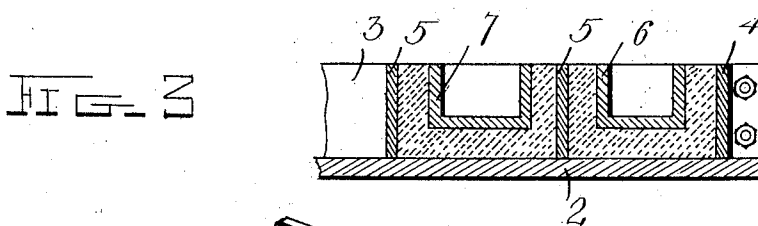
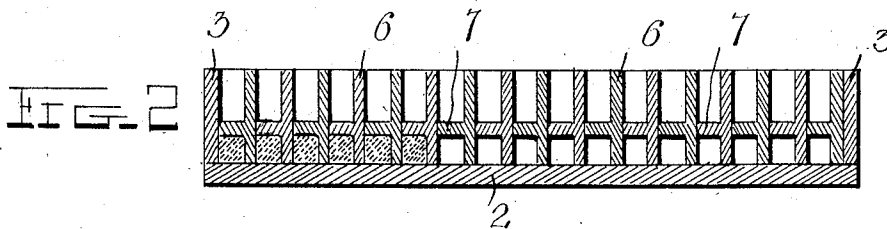
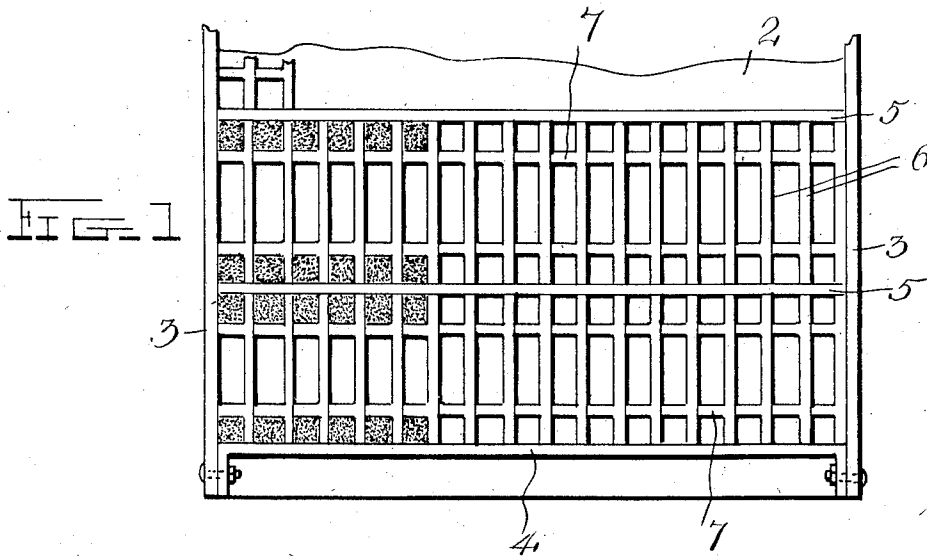
No. 833,419.

PATENTED OCT. 16, 1906.

F. McM. SAWYER.
MOLD FOR MOLDING BUILDING BLOCKS.

APPLICATION FILED MAY 7, 1906.

2 SHEETS—SHEET 1.



Witnesses
C. H. Griesbauer
C. H. Griesbauer

Inventor
Frank McM. Sawyer
by *A. B. Williams & Co.*
Attorneys

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2 SHEETS—SHEET 2.

FIG. 6

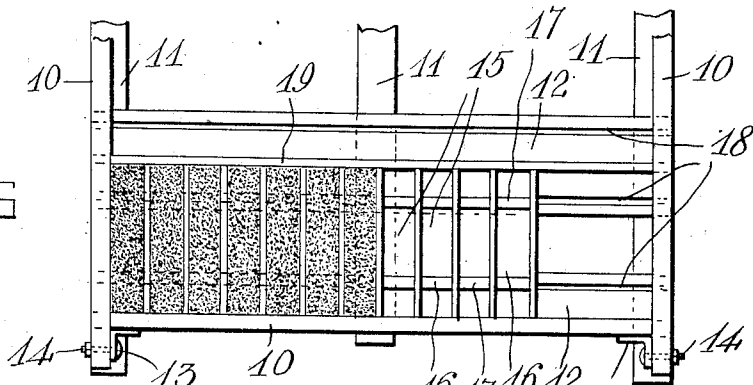


FIG. 7

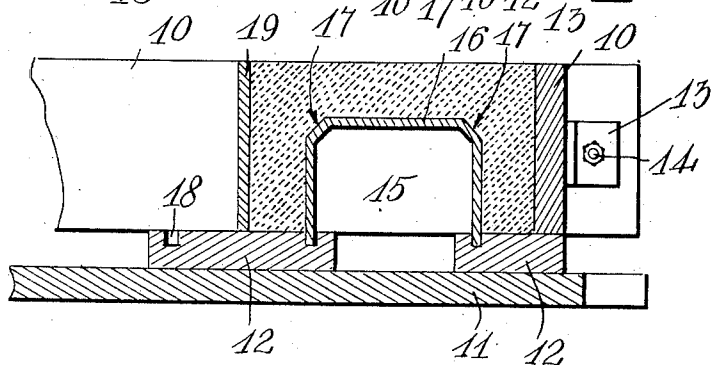


FIG. 8

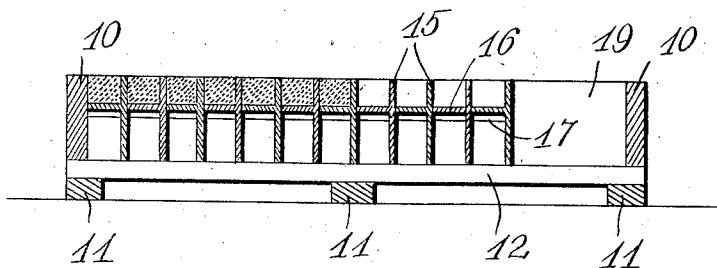
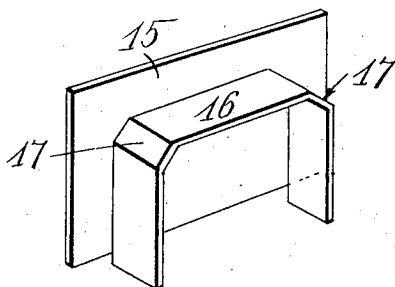


FIG. 9



Witnesses

C. H. Giesbauer.

Inventor

F. McM. Sawyer

by *A. B. Wilson & Co.*

Attorneys

UNITED STATES PATENT OFFICE.

FRANK McMURRAY SAWYER, OF CHARLOTTE, NORTH CAROLINA.

MOLD FOR MOLDING BUILDING-BLOCKS.

No. 833,419.

Specification of Letters Patent.

Patented Oct. 16, 1906.

Application filed May 7, 1906. Serial No. 315,597.

To all whom it may concern:

Be it known that I, FRANK McMURRAY SAWYER, a citizen of the United States, residing at Charlotte, in the county of Mecklenburg and State of North Carolina, have invented certain new and useful Improvements in Molds for Molding Building-Blocks; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in molds for molding concrete building-blocks; and it consists in the construction, combination, and arrangement of devices hereinafter described and claimed.

The object of my invention is to provide an improved mold, which comprises a mold-box the floor or bottom of which forms one of the outer faces of each of a plurality of molded blocks, removable partition-plates to divide the box into series of mold-spaces and to form the outer end faces of the molded blocks, and removable mold-plates for subdividing the spaces between the partition-plates into individual mold-chambers for the respective molded blocks, each of said mold-plates being provided on one side with a spacer and core-former to form the inner surfaces of such molded blocks and appropriately space such mold-plates apart.

In the accompanying drawings, Figure 1 is a top plan view of a mold embodying my improvements. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a vertical transverse sectional view of the same. Fig. 4 is a detail perspective view showing the construction of the mold-plates. Fig. 5 is a sectional view similar to Fig. 3, showing a modification. Fig. 6 is a top plan view of another modification. Fig. 7 is a transverse sectional view of the same. Fig. 8 is a similar view on a plane at right angles to that of Fig. 7, and Fig. 9 is a detail perspective view of one of the core-molds.

The mold-box 1 may be of any suitable size and may be made of any suitable material. It has a floor or bottom 2, sides 3, and stays 4, which connect the sides together. Partition-plates 5 are placed between the sides at suitable distances apart and divide the box into mold-spaces, in each of which a number of blocks may be molded, as hereinafter stated. The said mold-spaces are subdivided into individual mold-chambers for the several blocks by mold-plates 6, which

are placed between the pairs of partition-plates, as shown in Figs. 1, 2, and 3. Each of the said mold-plates is provided on one side with a spacer and core-former 7, which bears against the next adjacent mold-plate. Hence the mold-plates are appropriately spaced apart.

The concrete or other material in a plastic condition is put in the mold-chambers formed between the mold-plates and allowed to harden to form the building-blocks in such mold-chambers. Such building-blocks are of oblong rectangular form, with a similarly-shaped opening or core in one side. The outer continuous face of each block is formed by the floor or bottom of the box. The end faces of the block are formed by the partition-plates. The side faces are formed by the mold-plates, and the inner faces of the block or sides of the opening, recess, or core therein are formed by the spacer and core-former 7, as will be understood. After the blocks have been molded and have become sufficiently hard they may be readily removed from the mold-box, together with the partition-plates and mold-plates.

In Figs. 1 to 4 of the drawings the spacers and core-formers are disposed on the mold-plates with their horizontal intermediate portions lowermost and their vertical or leg portions extending upwardly therefrom, thus causing the blocks to be molded with the intermediate portions lowermost and their end or leg portions extending upwardly.

In Fig. 5 I show a modification in which the spacers and core-formers 8 have their horizontal intermediate portions uppermost and their vertical leg portions extending downwardly therefrom.

In Figs. 6, 7, 8, and 9 I show another modified construction, which I will now describe. The sides 10 of the mold-box are supported on sills 11, which are appropriately spaced apart. Cross-bars 12 are secured on and connect the sills and are secured together at their corners by suitable means, here shown as angle-irons 13 and bolts 14. The bars 12 form the bottom pieces of the mold-box, and the mold-plates 15 rest thereon. Each of the mold-plates is provided on one side with a spacer and core-former 16, which have their horizontal intermediate portions uppermost and their vertical leg portions extending downwardly. In the angles between the horizontal and vertical or leg portions of the spacers and core-formers are the beveled or

inclined portions 17. The lower end of the leg or vertical portions of the spacers and core-formers engage grooves 18 in the upper sides of the bottom bars 12, as shown in Fig.

5 7. The partition-plates 19 in this form of my invention are of the same construction as those shown in the other forms thereof.

From the foregoing description, taken in connection with the accompanying drawings, 10 the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be 15 resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined by the appended claims.

20 Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A mold-box having removable mold-plates, each provided on one side with a flange projecting laterally therefrom, extending to one edge thereof and forming a spacer 25 and core-former, substantially as described.

2. In combination with a mold-box having a longitudinally-grooved bottom, removable mold-plates, each provided on one side with a spacer and core-former extending to and projecting from the bottom edge thereof, said 30 projecting spacers of the mold-plates entering the grooves in the bottom of the box, for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses. 35

FRANK McMURRAY SAWYER.

Witnesses:

F. C. JACOBS,
A. H. FISHER.