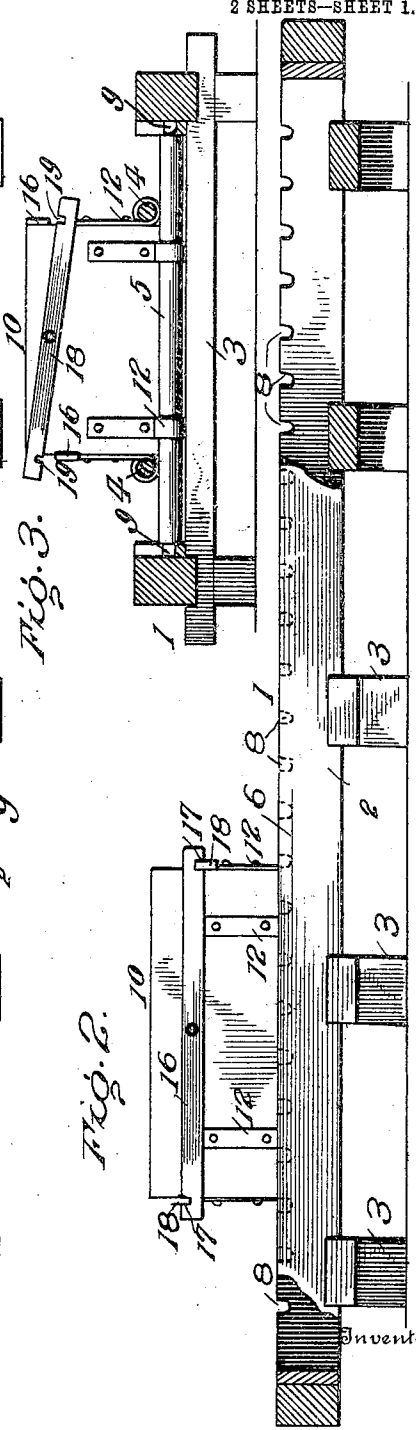
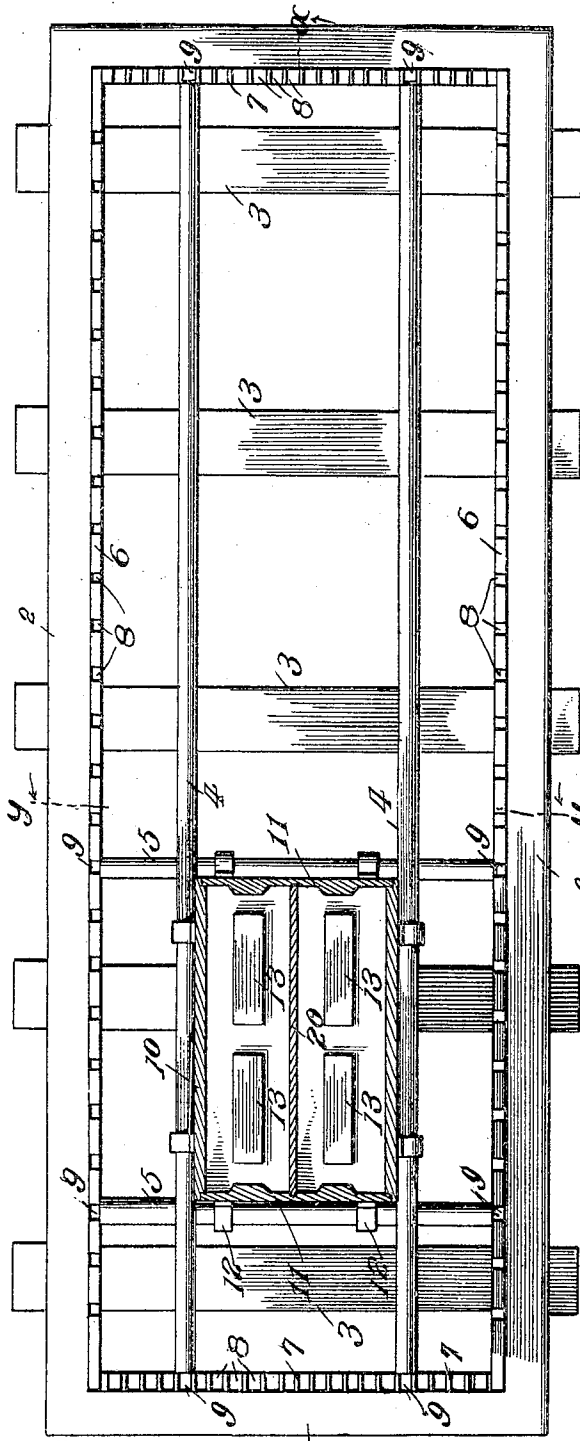


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MOLD.

APPLICATION FILED JAN. 20, 1905.

2 SHEETS—SHEET 1.



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 FIG. 1.
 x-x

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APPLICATION FILED JAN. 20, 1905.

2 SHEETS—SHEET 2.

Fig. 6.

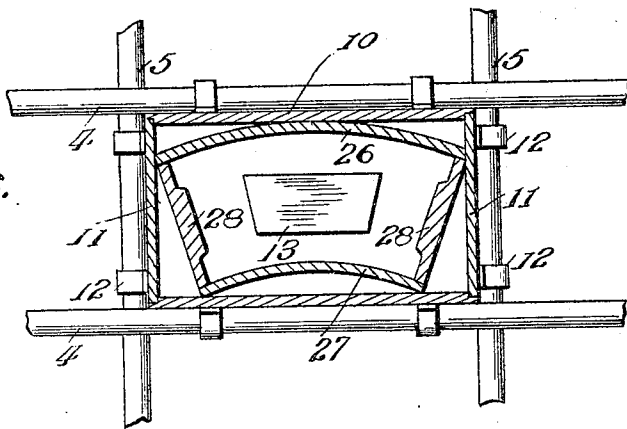


Fig. 4.

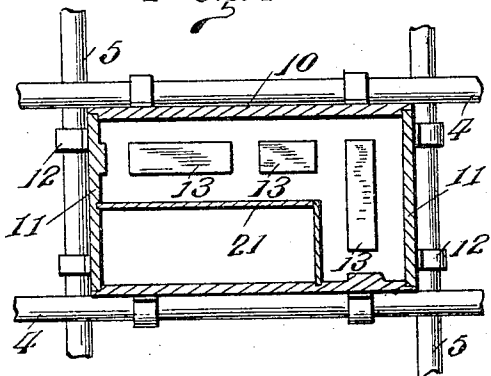


Fig. 5.

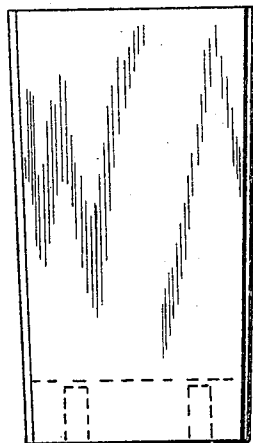
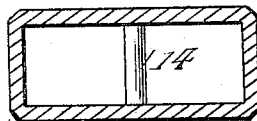
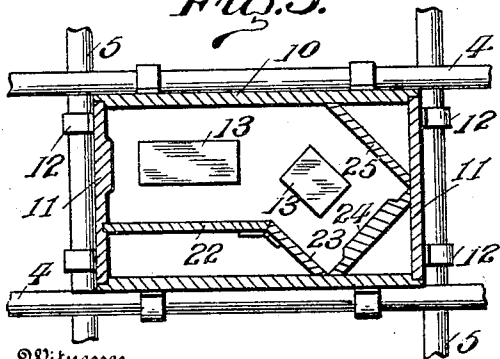


Fig. 7.

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UNITED STATES PATENT OFFICE.

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MOLD.

No. 801,294.

Specification of Letters Patent.

Patented Oct. 10, 1905.

Application filed January 20, 1905. Serial No. 241,979.

To all whom it may concern:

Be it known that I, DANIEL G. ZEIGLER, a citizen of the United States, residing at Sumter, in the county of Sumter and State of South Carolina, have invented certain new and useful Improvements in Molds, of which the following is a specification.

The object of this invention is to provide an improved construction of mold especially designed for molding brick, tile, building-blocks, or the like in connection with a support upon which the mold parts are peculiarly mounted in order to admit of interchanging and adjustment of such parts for making the brick or blocks of different sizes and shapes.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result, reference is to be had to the following description and accompanying drawings.

While the invention may be adapted to different forms and conditions by changes in the structure and minor details without departing from the spirit or essential features thereof, still some of the preferred embodiments of the invention are shown in the accompanying drawings, in which—

Figure 1 is a plan view of a device embodying the essential features of the invention. Fig. 2 is a longitudinal vertical sectional view on the line X X of Fig. 1. Fig. 3 is a transverse sectional view on the line Y Y of Fig. 1. Figs. 4, 5, and 6 are horizontal sectional views, parts broken away, of molds and core-pieces therefor, the molds being of different general construction for making different shapes of tiles or blocks. Fig. 7 is a side elevation of a core-block, such as is preferably used in connection with the invention.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Specifically describing the detail parts of the device which comprises this invention, 1 denotes the support, which is comprised, essentially, of a frame 2 of approximately rec-

tangular form, having sides and ends. The sides of the frame are connected by means of transverse cleats or curved pieces 3, which are of any suitable number sufficing to give the necessary rigidity to the frame. The mold proper is mounted upon the support 1, and for this purpose spaced longitudinal bars 4 are provided, and transverse spaced bars 5 are also used. The bars 4 and 5 are superposed mounted upon the frame 1, the sides and ends of the frame being provided with strips 6 and 7, respectively, the upper sides of which strips are provided with longitudinal recesses 8 at suitable intervals. The ends of the bars 4 and 5 are preferably reduced, as shown at 9, so that said ends may be readily seated in the recesses or notches 8 of the strip 6 in order to positively position the said bars in an adjusted position upon the frame 1. In their disposition upon the frame 1 the bars 4 and 5 may be adjusted toward and from each other, as desired, admitting of adjustment of said mold parts. The mold is of sectional construction and consists of the sides 10 and the ends 11, both the sides and ends being provided at their lower portions with engaging members 12, preferably of looped formation, which members 12 are adapted to receive the bars 4 and 5 in order to secure the mold parts thereto. The members 12 removably attach the sides and ends of the mold to the bars 4 and 5, so that these parts may be readily displaced in order to admit of use of larger or smaller mold-section in making tile or blocks of different sizes and shapes. The members 12, further, so attach the sides and ends of the mold to the bars 4 and 5 that these sides and ends may be readily thrown downwardly in order to rest flat after the mold has been used and to permit of drying of the molded article in the customary manner. Suitable core-blocks 13 are used in connection with the mold, and said blocks may be provided at their upper ends with handles 14, the lower extremities of the blocks having pins 15 projected therefrom to enter openings in the bottom of the mold, so as to properly center the core-blocks when the latter are in operative position. The sides of the core-blocks converge slightly toward the lower extremities thereof, as shown

most clearly in Fig. 7 of the drawings, to facilitate displacement of the cores after the molding operation.

It will be noted from the foregoing that should it be desired to mold tiles or blocks of greater or less width the longitudinal bars 4 may be readily adjusted by a separating or reverse movement thereof relative to each other, and in the same manner the length of the article to be molded may be also varied. Of course it will be obvious that different sizes of sides 10 and ends 11 for the mold may be utilized in connection with the bars 4 and 5, said parts of the mold being removably attached to the bars in a manner before set forth. The recesses or notches 8 in the end strips 7 of the frame 1 are of less depth than those in the side strips 6 in order that the transverse bars 5 may rest in a plane somewhat below the plane in which the longitudinal bars 4 are located. The articles molded in the use of the invention may thus be made of any width, length, or depth, and when the molding operation is completed the sides and ends of the mold may be thrown downwardly in order to expose the article for drying purposes. The parts of the mold are held in place by means of rigid bars 16, attached to the sides 10 of the mold longitudinally thereof, the ends of the bars 16 projecting beyond the ends 11 of said mold. The projecting ends of the bars 16 are notched on opposite sides, as shown at 17, and the ends 11 of the mold are provided with pivotal clamp-bars 18, the ends of which are notched, as shown at 19, the notches being in opposite sides. By pivotal movement of the clamp-bars 18 of the ends 11 of the mold the notched portions 19 thereof will engage in the notched portions 17 of the bars 16 of the sides 10, thereby firmly holding the several sections of the mold in place. The members 18, of course, by pivotal movement may be engaged or disengaged from the member 16 in assembling or disassembling the parts.

Fig. 1 of the drawings illustrates the use of a partition or division plate 20, arranged longitudinally of the mold between the side 10 thereof. The use of the plate 20 will admit of making two entire blocks or tiles in the same molding operation, as will be obvious.

In Fig. 4 an annular partition 21 is used in connection with three core-blocks 13. The tile or block molded in the device shown in Fig. 4 would be especially adapted for use at corners of wall construction.

Fig. 5 illustrates a further modification of the idea shown in Fig. 4, the block which will be molded in the construction of this figure being also of annular formation, because of the use of the partition 22 and adjacent partitions 23, 24, and 25. When it is desired to construct a tile or block of curved formation, the mold is provided with curved front

and rear plates 26 and 27, respectively, and end plates 28, a construction fully shown in Fig. 6 of the drawings.

The invention involves a comparatively simple device which may be manufactured in such a manner as to be susceptible of a very broad application in molding blocks, tiles, or the like.

Having thus described the invention, what is claimed as new is—

1. In a device of the class described, the combination of a support, superposed supporting-bars mounted in said support and arranged at an angle to one another, and a mold embodying sections mounted upon the bars aforesaid.

2. In a device of the class described, the combination of a support, supporting-bars mounted in said support and arranged at an angle to one another, means for adjusting said bars, and a mold embodying sections carried by said bars.

3. In a device of the class described, the combination of a supporting-frame, longitudinally-spaced bars adjustably mounted therein, spaced transverse bars adjustably mounted in said frame, and mold parts mounted upon the respective bars aforesaid.

4. In a device of the class described, the combination of a supporting-frame, longitudinally-spaced bars adjustably mounted therein, spaced transverse bars adjustably mounted in said frame, and mold parts removably mounted upon the respective bars aforesaid.

5. In a device of the class described, the combination of a supporting-frame, longitudinally-spaced bars adjustably mounted therein, spaced transverse bars adjustably mounted in said frame, and mold parts pivotally mounted upon the respective bars aforesaid.

6. In a device of the class described, the combination of a frame, spaced longitudinal bars mounted in said frame, spaced transverse bars mounted in said frame in a plane different from that in which the longitudinal bars are disposed, and a mold embodying sections carried by the respective transverse and longitudinal bars.

7. In a device of the class described, the combination of a frame consisting of sides and ends embodying a plurality of notches or recesses, longitudinally-spaced bars having the ends thereof seated in respective recesses of the frame, transversely-spaced bars having the extremities thereof mounted in respective recesses of the frame, and a mold embodying sections carried by said transverse and longitudinal bars.

8. In a device of the class described, the combination of a frame consisting of sides and ends and embodying a plurality of notches or recesses, longitudinally-spaced bars having the ends thereof seated in respective recesses of the frame, transversely-spaced bars having the extremities thereof mounted in respective

recesses of the frame, a mold embodying sections carried by said transverse and longitudinal bars, and consisting of sides and ends, the ends of the mold being provided with pivotal clamp-bars, and extensions projected
5 from the sides of the mold and adapted to be engaged by the clamp-bars of the ends thereof.

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

DANIEL G. ZEIGLER. [L. s.]

Witnesses:

MARIE BARWICK,
LILY PRINGLE.