No. 785,578. PATENTED MAR. 21, 1905.

F. McM. SAWYER.

MOLD.

APPLICATION FILED JAN. 12, 1905.

FIG. 1

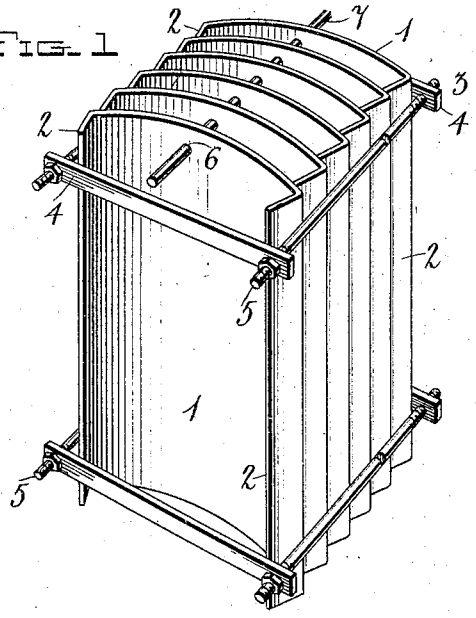


FIG. 2

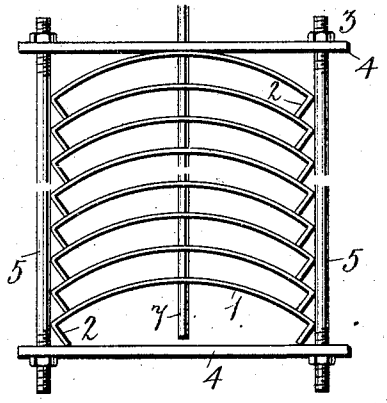


FIG. 3

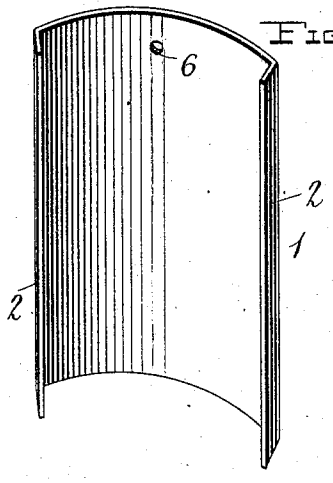


FIG. 4

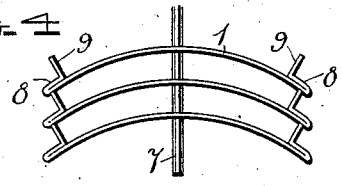


FIG. 5

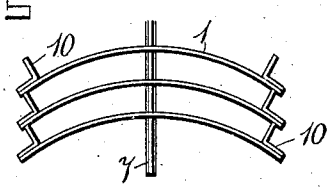
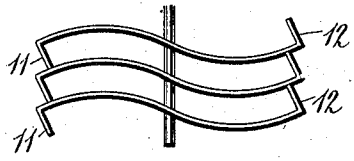


FIG. 6



Witnesses
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No. 785,578. Patented March 21, 1905.

UNITED STATES PATENT OFFICE.

FRANK McM. SAWYER, OF CHARLOTTE, NORTH CAROLINA.

MOLD.

SPECIFICATION forming part of Letters Patent No. 785,578, dated March 21, 1905.

Application filed January 12, 1905. Serial No. 240,822.

To all whom it may concern:

Be it known that I, FRANK McM. 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; 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 is an improved mold for molding roofing-tiles and other like articles; and it consists in the construction and arrangement of devices hereinafter described and claimed.

The object of my invention is to provide an improved mold of this character which is adapted for molding a number of tiles simultaneously and the parts of which are adapted to be readily assembled and separated.

In the accompanying drawings, Figure 1 is a perspective view of a mold embodying my improvements. Fig. 2 is a detail top plan view of the same. Fig. 3 is a detail perspective view of one of the separable mold-pieces, and Figs. 4, 5, and 6 are top plan views showing modifications in the construction of the mold-pieces.

In the embodiment of my invention I provide a suitable number of transverse mold-pieces 1, which are preferably made of sheet metal, but may be made of any other suitable material and are of any suitable form.

In the form shown in Figs. 1 and 2 each transverse mold-piece is curved or arc-shaped and is provided at its vertical sides with flanges 2, which form side walls and which are approximately at right angles to the curved portion of the mold and lie in converging planes, so that when a plurality of the transverse mold-pieces are assembled and placed side by side, as shown in Figs. 1 and 2, the side flanges or walls 2 of one mold-piece bear against the curved portion of the next adjacent mold-piece, so that mold-cavities are formed between the said mold-pieces, into which any suitable plastic material—such as a composition of cement, sand, and water, which may be colored to any shade desired by means of a suitable pigment incorporated in the composition—may be placed while the composition is in a semifluid state, the composition when set forming tiles or other articles which will be of a size and shape determined by the size and shape of the mold-pieces.

Within the scope of my invention any suitable means may be employed for holding the mold-pieces together when they are thus assembled, and any suitable number of mold-pieces may be thus assembled, according to the number of tiles or other articles that it may be desired to mold simultaneously.

For the purposes of this specification I show clamps 3, made of yoke-bars 4 and tie-rods 5, which connect the yoke-bars together and have screw-threaded engagement therewith, the said clamps being employed for holding the mold-pieces together. It will be understood that the sides of the tiles will be formed by the side flanges or walls 2 of the mold-pieces and that the tiles may be readily removed from the mold-pieces when the latter are separated after the composition has set.

In order to form the nail-holes in the tiles to enable the latter to be secured on a roof, each of the said mold-pieces is provided at a suitable distance from its upper end with an opening 6. A rod 7 is placed in the said openings after the mold-pieces have been assembled prior to placing the composition in the mold-cavity, and the said rod is withdrawn from the said opening after the composition has set and serves to leave the nail-holes in the molded article.

Within the scope of my invention the side flanges or walls of the mold-pieces may be of any suitable construction. In Fig. 4 I show a modified construction of mold-pieces in which each mold-piece is doubled and bent reversely, as at 8, at each side and is then bent at right angles, as at 9, to form side walls or flanges which project from the convex side of the mold-piece, the side walls of the mold-pieces shown in Figs. 1 and 2 projecting from the concave sides of the said mold-pieces.

In Fig. 5 is shown another modified construction of mold-piece, in which the side flanges or walls 10 are soldered to the mold-piece.

In Fig. 6 I show another modified construction of the mold-pieces, in which each mold is formed at its opposite sides with integral re-

versely-bent side walls 11 12, and the said mold-pieces are bent in the form of compound curves and are adapted to produce S-shaped or compound-curved tiles, as will be understood. Other modifications may be made within the scope of my invention, and I do not desire to limit myself in this particular.

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

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

1. A mold of the class described comprising a plurality of separable transverse mold-pieces formed with side walls or flanges, said side walls or flanges of each mold-piece bearing against the next adjacent mold-piece, whereby non-communicating mold-spaces are formed between the several mold-pieces.

2. A mold of the class described comprising a plurality of transverse mold-pieces formed with side walls or flanges, and clamping means separable from said mold-pieces to detachably secure said mold-pieces together with the side walls of one mold-piece bearing against the next adjacent mold-piece to close the spaces between them and to permit of the separation of the mold-pieces to release the molded article.

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

F. McM. SAWYER.

Witnesses:
L. SEAWELL,
BENJ. G. COWL.