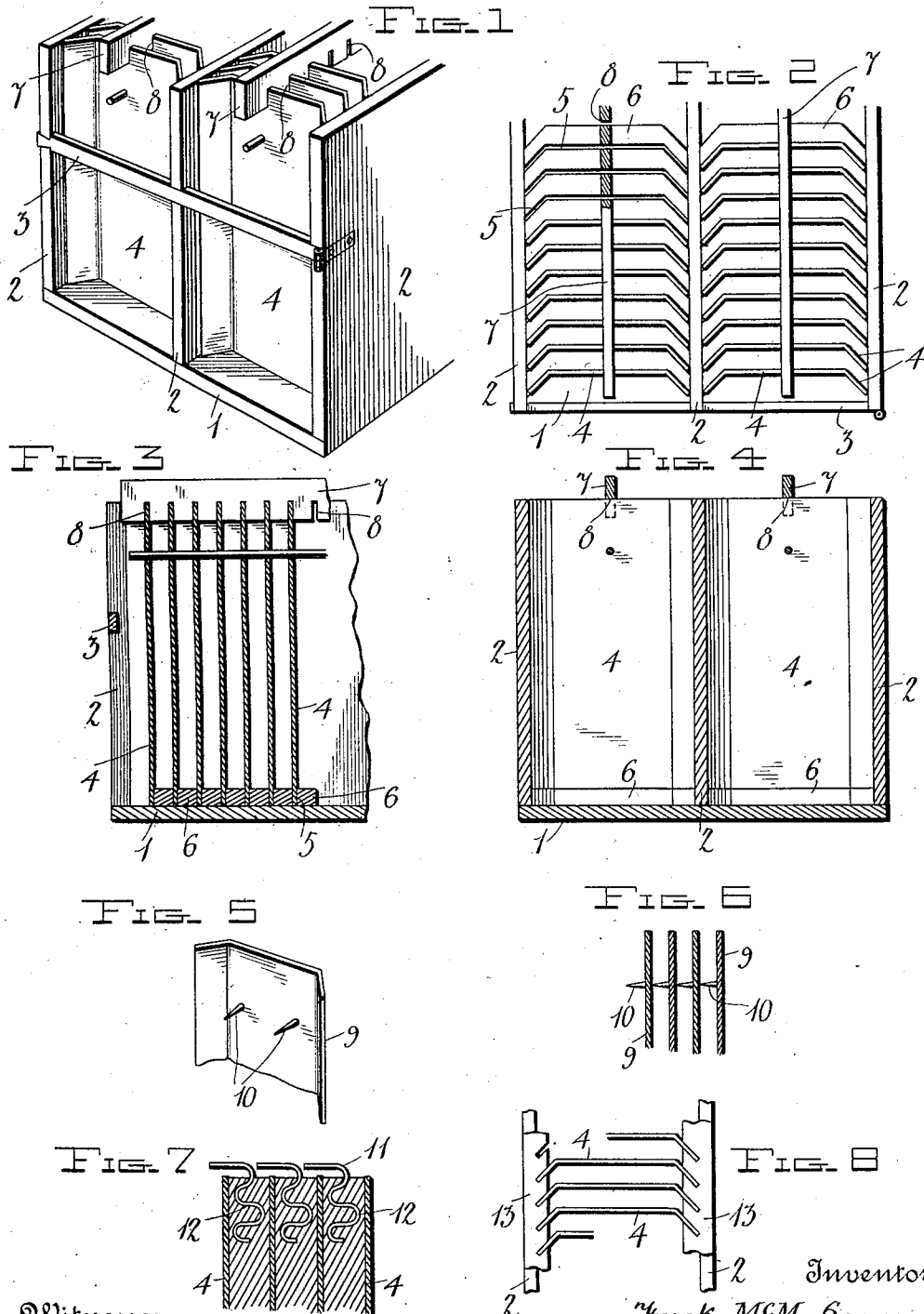


No. 813,590.

PATENTED FEB. 27, 1906.

F. McM. SAWYER.
MOLD FOR MOLDING TILES AND SIMILAR ARTICLES.
APPLICATION FILED AUG. 31, 1905.



Witnesses
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FRANK McMURRAY SAWYER, OF CHARLOTTE, NORTH CAROLINA.

MOLD FOR MOLDING TILES AND SIMILAR ARTICLES.

No. 813,590.

Specification of Letters Patent.

Patented Feb. 27, 1906.

Application filed August 31, 1905. Serial No. 276,656.

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 Mecklenberg and State of North Carolina, have invented certain new and useful improvements in Molds for Molding Tiles and Similar Articles; 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 simultaneously molding a plurality of cement or other composition tiles or other similar articles; and it consists in the construction, combination, and arrangement of devices hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a mold embodying my improvements. Fig. 2 is partly a top plan view and partly a horizontal sectional view of a portion of the mold. Fig. 3 is a longitudinal sectional view of a portion of the mold. Fig. 4 is a transverse sectional view of the same. Fig. 5 is a detail perspective view of a modified construction. Fig. 6 is a sectional view of the same. Fig. 7 is a sectional view of another modified construction, and Fig. 8 is a detail top plan view of another modified construction.

The mold-box may be of any suitable construction. It is here shown as comprising a bottom 1, side members 2, and cross-bars 3 at the ends of and detachably connecting said side members together. In between the pairs of the side members are placed a plurality of transverse mold pieces or blades 4, which are preferably made of sheet-steel or other metal, but may be made of any suitable material, and are bent or fashioned in the required shape of the tiles or other articles to be molded between said transverse mold-pieces and the said longitudinal or side pieces 2. The said transverse mold-pieces 4 are detachably secured between the side mold-pieces 2 and are appropriately spaced apart, according to the required thickness of the articles to be molded between them. To thus secure the transverse mold-pieces in place and permit of their ready detachment from the bottom and sides of the mold-box, I provide the bottom of the mold-box with notches 5 to receive the lower ends of the said transverse mold-pieces. The said notches may be either cut in the bottom of the mold-

box or they may be formed by strips 6 of the required size and shape placed on the bottom of the mold-box and between the transverse mold-pieces as the latter are placed in the mold-box. I also provide means for securing and appropriately spacing the upper ends of the said transverse mold-pieces. In Figs. 1, 2, and 3 I show such spacing means as composed of strips 7 of sheet metal or other suitable material, provided on their under sides with notches 8 at an appropriate distance apart to receive the upper edges of the transverse mold-pieces. Any suitable number of these spacing and securing strips may be employed.

In Fig. 5 I show a modified construction of the transverse mold-pieces, in which each of the said mold-pieces 9 is provided on one side near its upper end with projecting tapered studs 10 of suitable length. Said studs when a plurality of transverse mold-pieces are assembled in the mold-box, as shown in Fig. 6, bear between the upper ends of the said transverse mold-pieces to maintain them at the required distance apart, and when the spaces between the mold-pieces are filled with the cement or other plastic composition to form tiles or other molded articles said studs form nail-holes in the tiles or other molded articles, as will be understood.

In Fig. 7 I show another modified construction, in which I employ tile-securing strips 11 of flexible sheet metal or other material. The lower end of each of the said securing-strips 11 is bent reversely a number of times, as at 12, and placed between the upper ends of a pair of transverse mold-pieces, the upper portion of the strip being disposed in a horizontal or substantially horizontal position and bearing on one of the said transverse mold-pieces, so as to support said strip in place. When the tile or other article is molded between said mold-pieces, the lower bent or fluted portion of the said strip becomes embedded permanently in the molded articles, and the upper end of the said strip projects from the molded article and serves as a means for securing the same on a wall or roof by means of a nail driven through said projecting end of the strip.

In Fig. 8 I show a modified construction in which I employ a horizontally-laid strip 13, having notches in its edges to receive the upper edges of the transverse mold-pieces instead of the strips 7, hereinbefore described.

From the foregoing description, taken in

connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

5 Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

1. A mold of the character described comprising a plurality of spaced-apart mold-sections each of which is provided with a forwardly-projecting pin or plug located near one end thereof and contacting with the rear surface of the next adjacent section, whereby said sections are properly spaced and nail-holes formed in the tiles.

2. A mold of the character described comprising a plurality of mold-sections each provided with side flanges, supporting means for engaging said flanges, and independent means 25 carried by each section for spacing said sections and also forming a hole or opening in the article to be cast.

3. A mold of the character described comprising a plurality of mold-sections each provided with side flanges and a forwardly-projecting plug located between said flanges, and contacting with the rear surface of the next adjacent section, whereby said sections are properly spaced and nail-holes formed in the tiles, and means for securing said mold-sections in juxtaposition.

4. A mold-section of the character described comprising a flat body provided with side flanges, and a forwardly-projecting combined spacing and core plug located between said flanges near the upper end of said body.

5. In combination with a mold-box, transverse mold-pieces to lie between the side members thereof and provided with studs, said studs projecting laterally from said transverse mold-pieces and serving to space them apart.

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

FRANK McMURRAY SAWYER.

Witnesses:

GEO. E. TERRY,
BENJ. G. COWL.