Nov. 6, 1923. 1,473,524

A. STOCKSTROM

APPARATUS FOR MAKING IMITATION TILE PANELS

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FIG. 1.

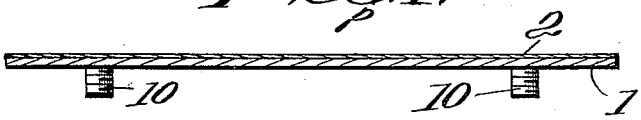


FIG. 2.

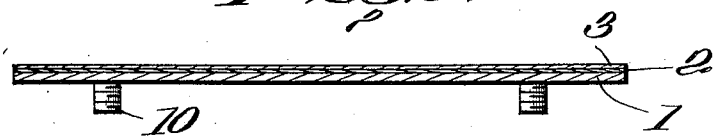


FIG. 3.

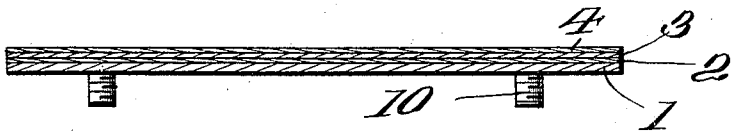
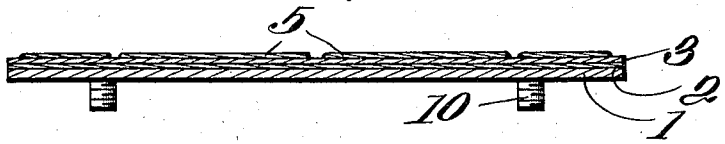


FIG. 4.



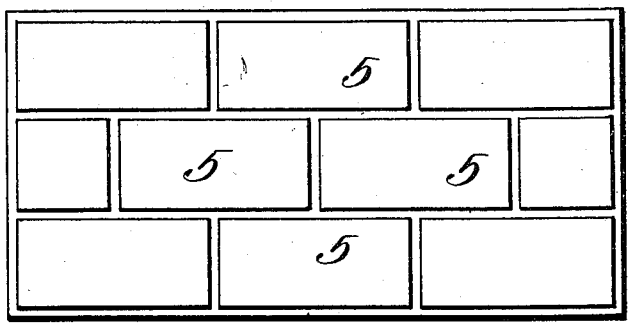


FIG. 5.

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Fig. 6.

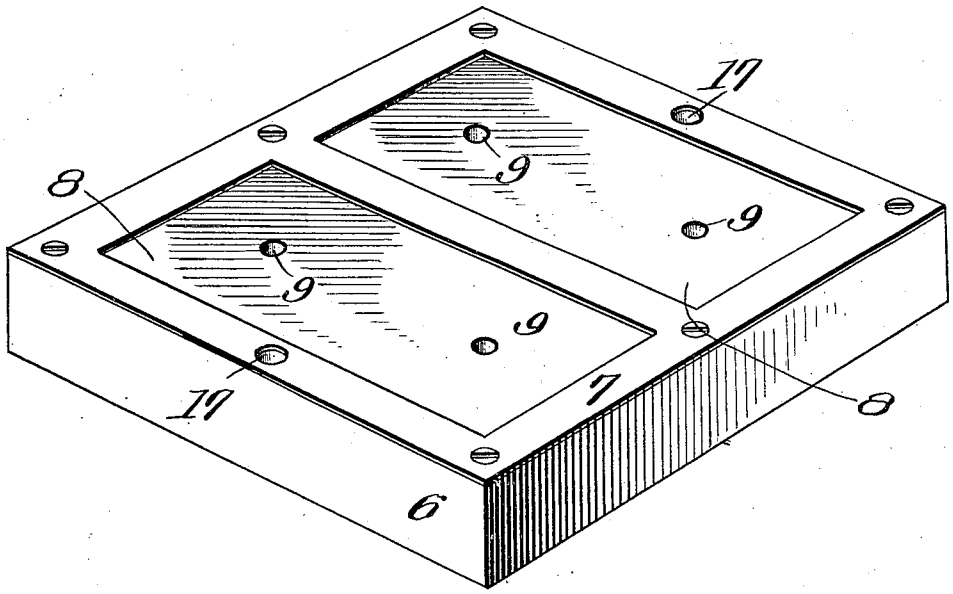
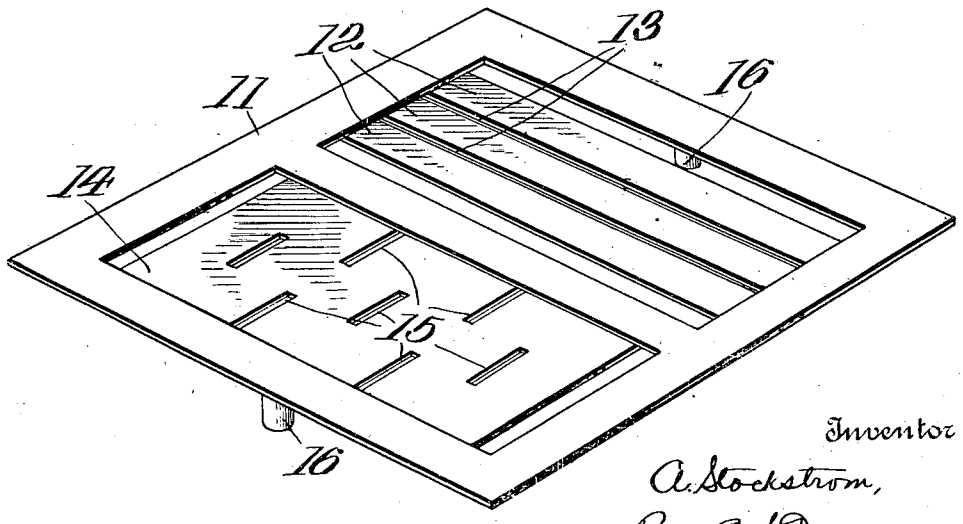


Fig. 7.



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UNITED STATES PATENT OFFICE.

ARTHUR STOCKSTROM, OF ST. LOUIS, MISSOURI, ASSIGNOR TO AMERICAN STOVE COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION OF NEW JERSEY.

APPARATUS FOR MAKING IMITATION TILE PANELS.

Application filed July 10, 1922. Serial No. 574,013.

To all whom it may concern:

Be it known that I, ARTHUR STOCKSTROM, a citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Apparaus for Making Imitation Tile Panels, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to improvements in apparatus for making imitation tile panels, and relates to the production of an imitation tile panel for use in connection with incandescent gas heaters.

The primary object of my present invention is to make an imitation tile panel with the joints between the panels in a plane below the surface of the panels, whereby a more realistic effect is caused by reason of the joints setting back from the face of the tile panels.

A further object of the present invention is to make an imitation tile panel by fusing on it a coating of white material, then coating the whole surface of the panel with the desired color of enamel material, permitting the color to dry, removing the dried coloring material at the joints of the panel, leaving exposed the white backing in a plane below the surface of the tile panels, and then fusing the colored material.

A further object of my present invention is the making of an imitation tile panel by fusing thereon one color of enamel material, placing thereon an enamel material of the color of the tile panels, permitting it to dry, then forming the joints of the panels by the utilization of a stencil, whereby the dried enamel material may be brushed away leaving depressed exposed joints between the panels, then fusing the last coat, whereby an imitation panel with depressed joints is the result.

In carrying out the above invention, I take a piece of metal of suitable size and its surface is treated in the manner above mentioned, producing a panel composed of a series of tiles connected by depressed joints.

In the accompanying drawings:

Figure 1 is a section of a metal plate showing the first grip coal enamel coat applied thereto.

Fig. 2 is a sectional view of the plate showing an enamel coating to represent the joints in the panel.

Fig. 3 is a sectional view showing a third enamel coat to represent the desired color of the tiles.

Fig. 4 is a sectional view showing the joints of the tiles brushed away, leaving the joints depressed.

Fig. 5 is a plan view of a panel comprising my present invention.

Fig. 6 is a perspective view showing one part of the stencil.

Fig. 7 is a perspective view showing another part of the stencil used for brushing away the color coating.

In carrying out my invention, I utilize a metal plate which is slightly less than five inches in length and little more than two and one-fourth inches in width. It will be understood that the size of the metal plate might be varied without affecting the invention, and the imitation tiles made larger or a greater number made on the plate.

In Fig. 1, 1 represents a metal plate having a grip coal enamel coating 2, applied to its surface. In Fig. 2, I show a second coating 3 of enamel material on the coating 2. These enamel coatings are subjected to a suitable temperature, whereby they are fused making an enamel finish. In Fig. 3, I place upon the plate a third coating 4 of enamel material, which is to be the desired color of the tile. This coating is allowed to dry and a suitable stencil is applied to its surface and the coating 4 brushed from it by a hand or motor operated steel brush through the grooves of the stencil. This produces the tiles 5 with the coating 3 depressed below the surface of the tiles 5. The plate with the panels thus formed is then subjected to a fusing temperature.

I have used an enamel material 3, which is white or gray in color to represent the joints of the tiles, but it will be readily understood that black or other color might be used so long as the colors 4 and 3 are different. The coat 4 represents the desired color for the finished tile, and the coating 3 is a color which contrasts with the coating 4, so that when the coating 4 is removed by brushing through the stencil, the joints will be a contrasting color to the color of the tile.

The apparatus utilized for carrying out my method is shown in Figs. 6 and 7. In Fig. 6, I take a block of wood 6, to which I secure a plate 7. This plate has two openings 8, which are of a size to receive the plate shown in the drawings. This block 6 has each opening 8 provided with vertical openings 9, for receiving screw-threaded projections 10, which extend from the bottom of the plate 1.

I take two plates that have received the final coating which has dried and place them in the openings 8, then a stencil 11 is placed over the plates. One part 12, of the stencil 11 has longitudinal slots 13, which represent the long slots of the finished plate, and another part 14 of the stencil 11 is provided with short vertical slots 15. At each side of the stencil 11 there is a depending projection 16, which fits in suitable holes 17 of Fig. 1.

The two plates being placed in the openings 8, the stencil 11 is placed over them and the dried coating brushed from the plate through the longitudinal openings 13 and the vertical openings 15. The stencil is then turned end for end, the panels remaining in position and the brushing repeated, which completes both panels and makes the joints appear without any break whatever, as shown in Fig. 5.

After the last brushing, the plate is subjected to a fusing temperature, which finishes the article.

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

1. An apparatus for producing an imitation tile with unbroken depressed joints, comprising two stencils one having longitudinal slots and the other transverse slots, the stencils to be alternately used as described.

2. An apparatus for producing an imitation tile with unbroken, depressed joints, comprising means for holding the plate to be treated, two stencils having means for holding them over the said plate, the stencils to be alternately applied to the plate in the manner and for the purpose described.

3. An apparatus for producing an imitation tile with unbroken, depressed joints, comprising a double integral stencil, one part of the double stencil having longitudinal slots and the other part of the stencil having transverse slots, the stencil to be applied to the plate in the manner and for the purpose described.

4. An apparatus for producing an imitation tile panel comprising a block adapted to receive and hold two coated plates, a double integral stencil one part of the stencil having longitudinal slots and the other part of the stencil transverse slots, the said stencil to be applied alternately to the plates as and for the purpose described.

In testimony whereof I hereunto affix my signature.

ARTHUR STOCKSTROM.