May 2, 1933. G. D. HAINES 1,906,583

TILED WALL OR THE LIKE

Filed March 19, 1930

Fig. 1.

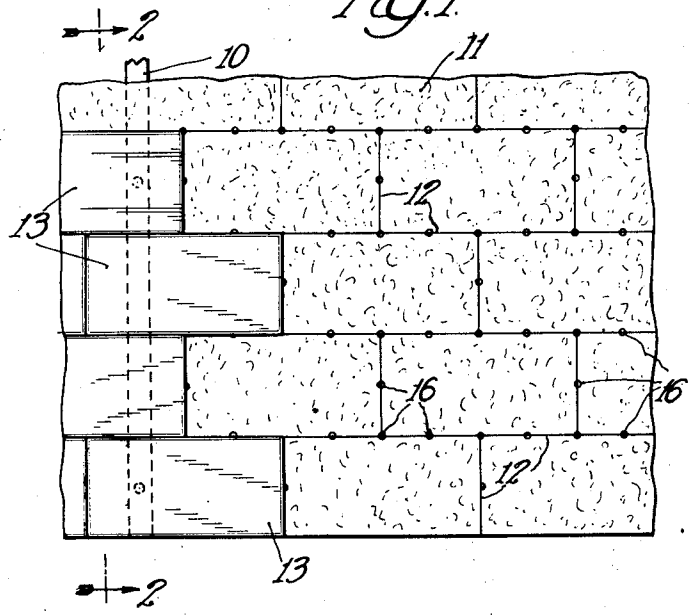


Fig. 2.

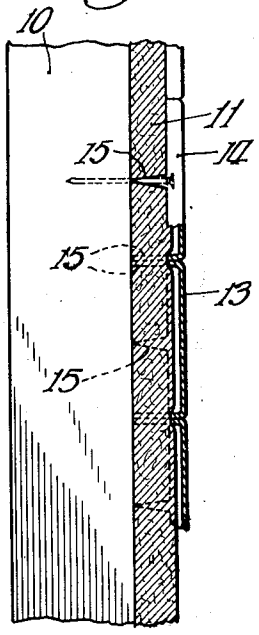
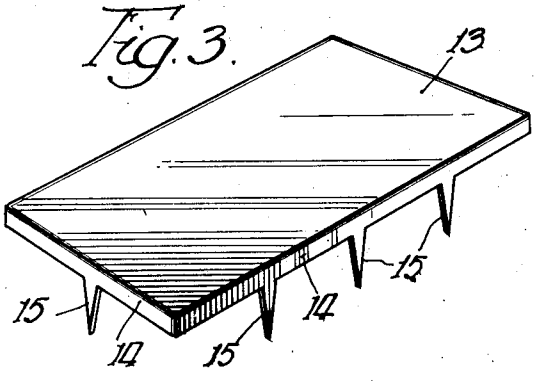


Fig. 3.



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UNITED STATES PATENT OFFICE

GEORGE D. HAINES, OF PARK RIDGE, ILLINOIS, ASSIGNOR, BY MESNE ASSIGNMENTS, TO PORCELAIN TILE CORPORATION, OF CHICAGO, ILLINOIS, A CORPORATION OF DELAWARE

TILED WALL OR THE LIKE

Application filed March 19, 1930. Serial No. 437,006.

The invention relates to the production of tiled surfaces of the general type disclosed in Patent No. 1,594,614 granted to me on August 3, 1926. The construction shown in said patent comprises a foundation sheet to which enameled sheet-metal tiles are secured to form the tiled surface.

The present invention has as its object the provision of novel means by which tiles may be speedily mounted on a foundation sheet in accordance with an accurately defined, prearranged plan which is printed, painted, stenciled or similarly formed upon the face of the foundation sheet.

This object is attained by providing tiles having members thereon arranged to penetrate the foundation sheet to hold the tile on the sheet, and by providing lines on the sheet for indicating the proper position, relative to the sheet, of said penetrating members, or of the margins of the tiles, or of both.

In the accompanying drawing:

Figure 1 is a fragmentary view in elevation of a tiled structure embodying the features of the invention.

Fig. 2 is a vertical section taken through said structure on the line 2—2 of Fig. 1.

Fig. 3 is a perspective view of one of the enameled sheet metal tiles.

While the invention is susceptible of various modifications and alternative constructions, I have shown in the drawing and will herein describe in detail the preferred embodiment, but it is to be understood that I do not thereby intend to limit the invention to the specific form disclosed, but intend to cover all modifications and alternative constructions falling within the spirit and scope of the invention as expressed in the appended claims.

The invention is adapted for use in connection with interior or exterior walls, floors, wainscoting, fire places, tiled surfaces around built-in bath tubs, store counters, and the like. The supporting structure to which the tile surface is to be applied may be of any preferred construction, that hereinafter shown consisting of a plurality of vertical wooden studs 10 constituting the ordinary supporting structure or frame work of a wall or partition. To the studs is nailed or otherwise secured a rigid base or foundation sheet 11 of mineral or fibrous material.

On the face of the sheet 11 is a plurality of sets of parallel guide lines 12 which are painted, stenciled, printed, stamped, or otherwise applied thereto. Herein, the lines are arranged to designate squares, the length of one side of which equals the shorter dimension of a tile. Obviously, other arrangements of lines may be used, which arrangements will correspond to the shape of the tiles to be applied or to the prearranged plan for mounting the tiles.

A preferred form of tile is shown in Fig. 3 as comprising a flat metal plate 13 having rearwardly extending marginal flanges 14. The face of the tile and the flanges thereon are preferably coated with vitreous enamel. At regularly spaced intervals along the flanges, a plurality of tangs 15 are provided which preferably extend from the plate 13 substantially in the plane of the flanges. The tangs are pointed or sharpened to facilitate penetration of the foundation sheet thereby.

In the step of mounting the tiles on the foundation sheet during the construction of the tiled wall, which step usually occurs after the sheet has been secured to the studs 10, the flanges 14 are alined with the guide lines 12 by causing the tangs 15 to enter the sheet along said lines. The tile may then be mounted on the sheet by driving or otherwise forcing the tangs into the sheet. If desired, sufficient force may be used to embed the flanges to some extent in the face of the sheet (see Fig. 2).

In order more accurately to locate the tiles on the sheet, it is desirable to provide guide characteristics or indicia to designate the proper position for engagement of the sheet by the tangs 15. To this end, small, dot-like marks 16 or points are applied to the sheet. The marks 16 are spaced apart in conformity with the spacing of the tangs and in this embodiment are disposed along the lines 12 so that the margins of the tiles will register with the lines when the tiles have been mounted. In consequence, a workman may properly locate the tiles prior to mounting them on the

sheet and then readily check the accuracy of said mounting after the tiles have been driven into position.

It is customary, in this art, to cement the tiles to the foundation sheet. Thus, the cement may be applied to each individual tile as it is mounted, or the workman may place a large number of tiles in position and then, while the tiles are maintained in place by the tangs, apply cement to the group as a whole by a grouting operation.

I claim as my invention:

1. A tiled wall comprising, the combination of a rigid foundation sheet constituting a part of the wall, said sheet having a plurality of lines on the face thereof arranged in accordance with a prearranged plan to indicate positions to be occupied by the marginal edges of the tiles, and tiles mounted on and supported by said sheet having marginal flanges having penetrative tangs adapted to be placed in registration with said lines to accurately determine the final position of said tile while spaced from said sheet and before the tile is permanently secured on said wall.

2. A tiled wall comprising, the combination of a rigid foundation sheet constituting a part of the wall, said sheet having a plurality of lines on the face thereof arranged in accordance with a prearranged plan to indicate positions to be occupied by the marginal edges of the tiles, a plurality of tiles covering said sheet, marginal flanges on said tiles, pointed members extending from said flanges substantially in the plane thereof, and a plurality of small characters disposed in spaced relation along said lines to indicate positions for engagement of said sheet by said members whereby said flanges will accurately register with said lines when said tiles are mounted on the sheet.

In testimony whereof, I have hereunto affixed by signature.

GEORGE D. HAINES.