June 20, 1939. J. B. BOYD, SR 2,162,695

TILE

Filed May 4, 1938 2 Sheets-Sheet 1

Fig. 1.

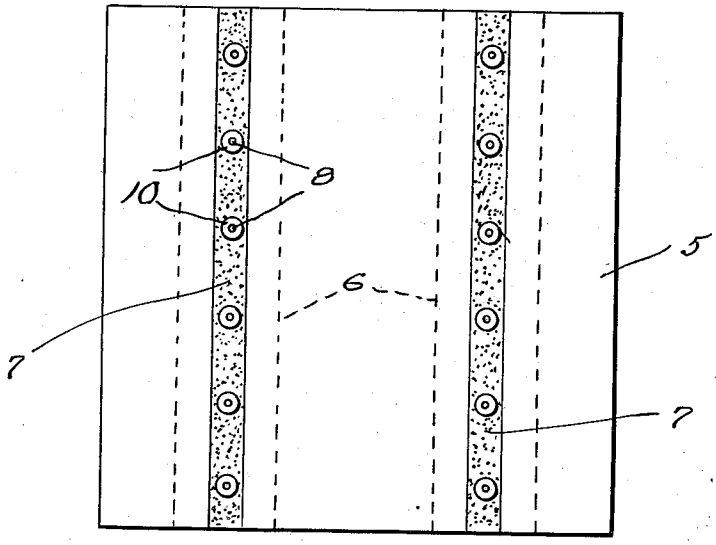


Fig. 2.

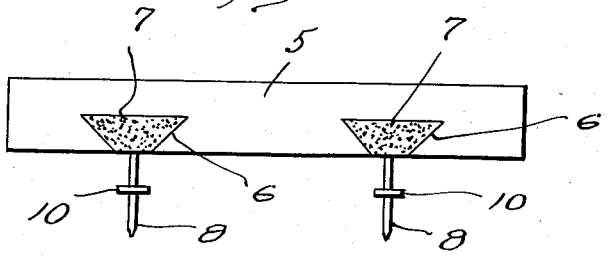
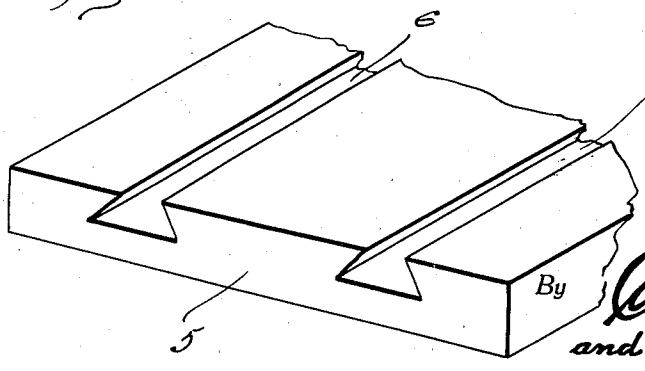


Fig. 5.



Inventor

J. B. Boyd, Sr.

By Clarence A. O'Brien and Hyman Berman

Attorneys

June 20, 1939. J. B. BOYD, SR. 2,162,695

TILE

Filed May 4, 1938 2 Sheets-Sheet 2

Fig. 3.

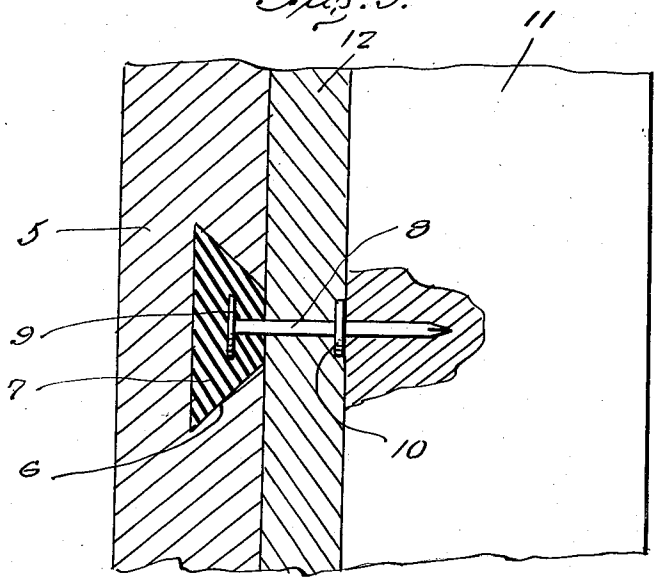


Fig. 4.

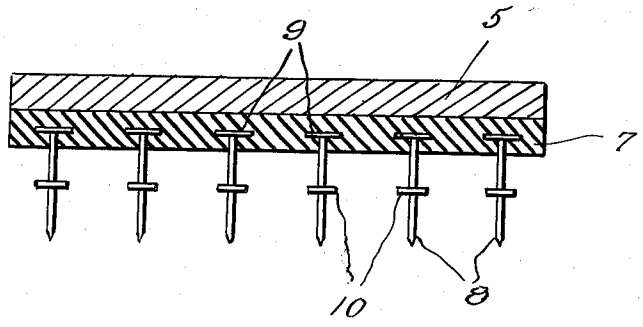
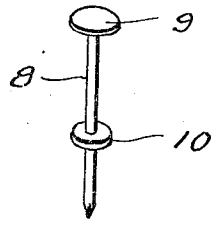


Fig. 6.



Inventor

J. B. Boyd, Sr.

By Clarence A. O'Brien and Hyman Berman

Attorneys

Patented June 20, 1939 2,162,695

UNITED STATES PATENT OFFICE

2,162,695

TILE

John B. Boyd, Sr., Reno, Nev.

Application May 4, 1938, Serial No. 206,059

3 Claims. (Cl. 72—19)

This invention relates to vitrified clay or glass products such as brick tile, quarry tile, glass tile, and the like and an object of the invention is to provide ware of this character with means positively united therewith and serving as a securing or anchoring means for securing or anchoring the ware to the studding or bedding in the laying of a tile surface such as a floor, wall, or the like; and the invention together with its objects and advantages will be best understood from a study of the following description taken in connection with the accompanying drawings wherein:

Figure 1 is a plan view of a tile embodying the features of the present invention, and viewing the tile from the attaching or anchoring side thereof,

Figure 2 is an edge elevational view of the tile,

Figure 3 is an enlarged fragmentary detail sectional view showing the tile as applied to a studding or bedding in accordance with the present invention,

Figure 4 is a transverse sectional view through the tile,

Figure 5 is a fragmentary perspective view of a portion of a tile with the fastening elements removed, and

Figure 6 is a perspective view of a preferred form of fastening element.

Referring to the drawings by reference numerals it will be seen that the ware indicated generally by the reference numeral 5 may be in the form of a vitrified clay product such as a brick tile, quarry tile, or a glass tile, and in accordance with the present invention is provided in one face thereof, that is the face thereof to be disposed in confronting relation to the bedding or studding, with a plurality, in the present instance two, mortised grooves 6 extending from one edge to the opposite edge of the tile or ware.

Arranged within the grooves 6 are elongated wedge-shaped strips 7 of rubber or other suitable material which conformably fit within the grooves 6 and serve as means for anchoring to the ware product 5 fastening or anchoring elements 8.

As shown in the preferred embodiment of the invention, two rows of fastening elements 8 are thus provided, and each fastening element 8 is in the form of an elongated headed nail, the head 9 of which is embedded in the strip 7.

Preferably the shank of the nail or fastening element 8 intermediate the ends thereof is provided with an integral abutment or stop shoulder 10 which, when the tile is secured in place, abuts the surface of the bedding or studding 11 as shown in Figure 3 in order to space the tile 5 from the studding and thus permit a liquid filler cement or the like 12 to be poured in back of the tile 5 between the tile and the studding 11 to serve as a further means for anchoring the tile 5 in place.

It will be understood that when desired the shoulders 10 on the nails 8 may be eliminated thus permitting the shanks of the nails for the entire length of the exposed portions thereof to be driven into the studding 11 so that the tile will have intimate facial contact with the studding.

It will thus be seen that I have provided a tile equipped with means whereby the tile may be positively secured through the medium of fastening elements in position when laid. All that is required is a rubber hammer for driving the fastening elements into the studding or bedding thus rendering it possible to lay the tiles quicker and in a manner tending toward a material saving in labor and material cost.

It is thought that a clear understanding of the utility and advantages of an invention of this character will be had without a more detailed description.

Having thus described the invention what is claimed as new is:

1. A surface tile having a plurality of rows of relatively spaced sharpened anchoring shanks projecting from one face thereof, said shanks being provided with integral shoulders spaced intermediately between said face of the tile and the free extremities of the shanks for spacing the tile from the studding or bedding penetrated by said elements.

2. As a new article of manufacture a tile provided in one face thereof with a mortise groove, a strip of resilient material filling said groove and anchoring elements for the tile projecting from the grooved face of the tile and having one end embedded in said strip.

3. A tile of the character described provided in one face thereof with a series of mortise grooves, elastic strips arranged within said grooves, and headed fastening elements having the heads thereof embedded in said strips, said elements having on the shanks thereof integral stop shoulders.

JOHN B. BOYD, SR.