

April 19, 1932.

S. B. MYERS

1,855,029

ROOFING TILE

Filed Aug. 23, 1929

2 Sheets-Sheet 1

Fig. 1.

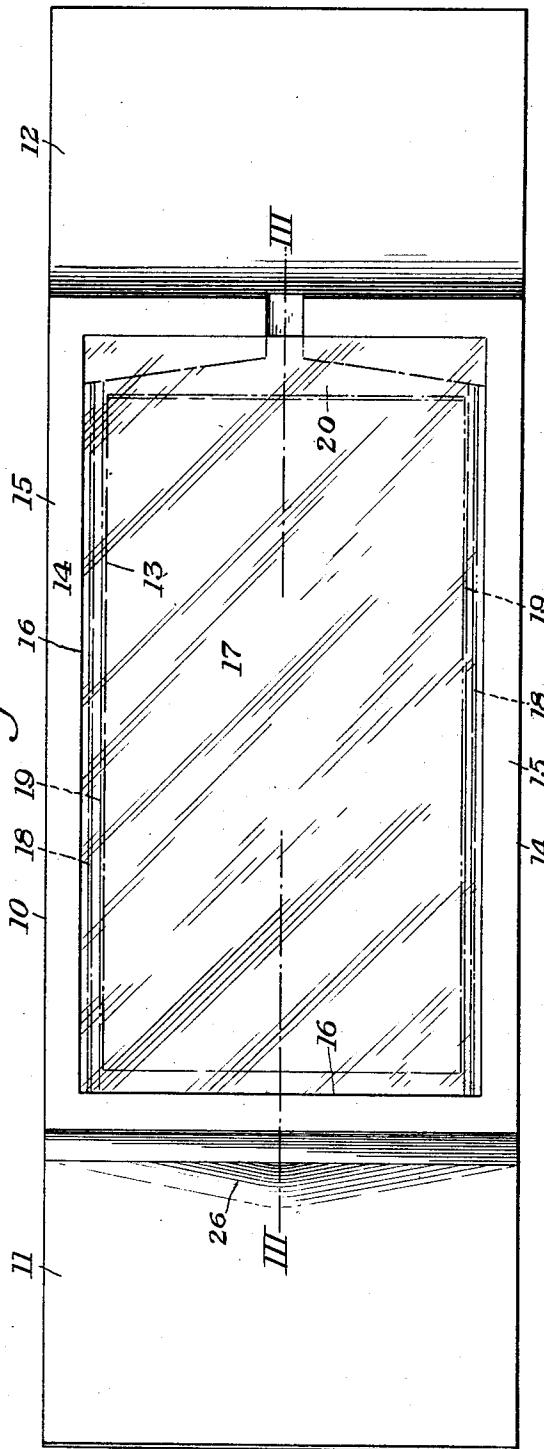
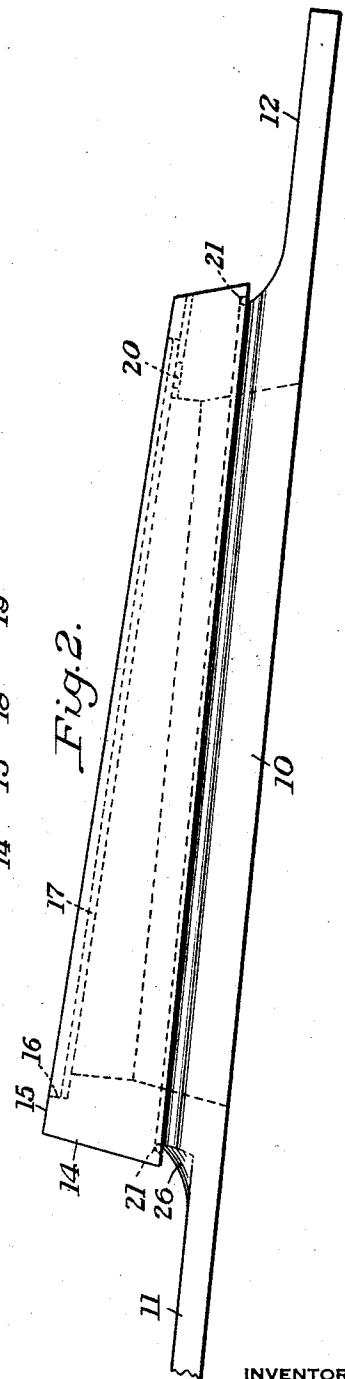


Fig. 2.



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Fig. 3. IV

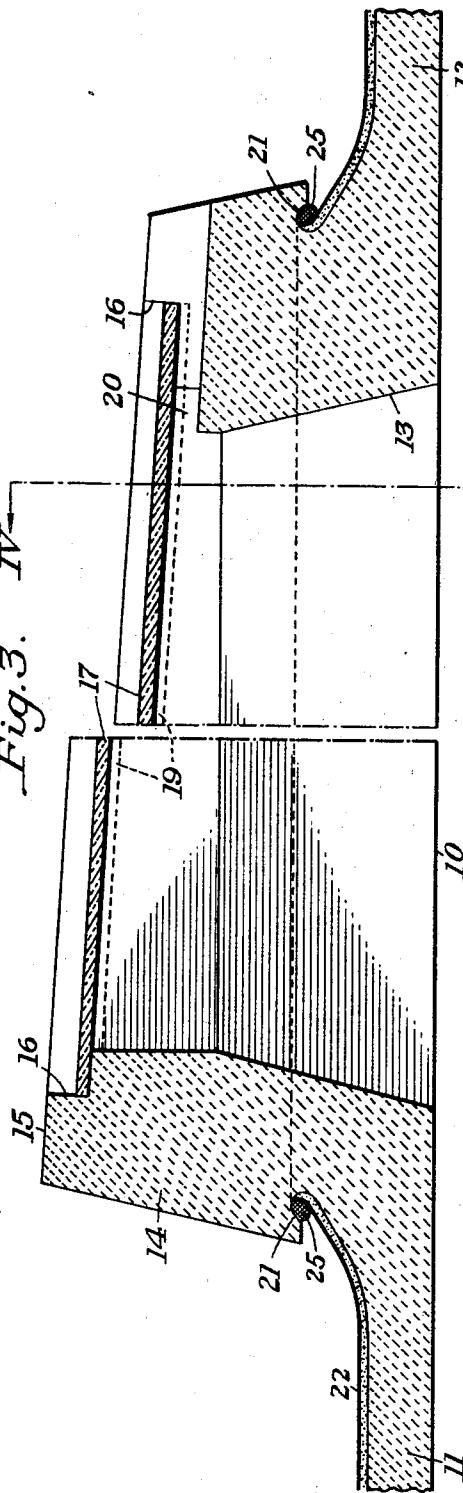
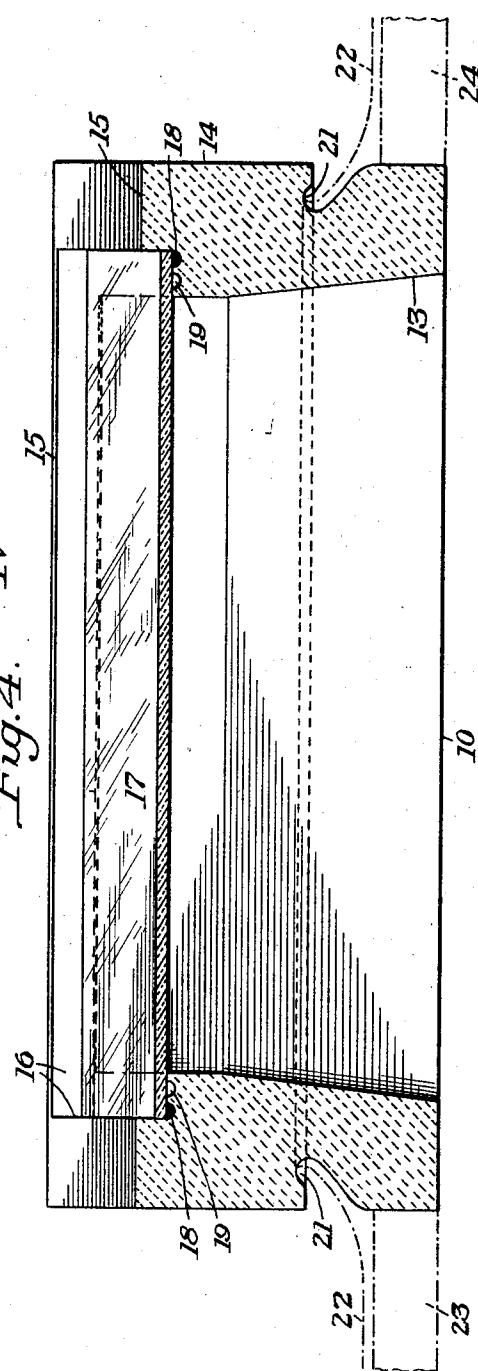


Fig. 4. IV



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## UNITED STATES PATENT OFFICE

SOLOMON B. MYERS, OF PITTSBURGH, PENNSYLVANIA, ASSIGNOR, BY MESNE ASSIGNMENTS, TO FEDERAL-AMERICAN CEMENT TILE COMPANY, OF CHICAGO, ILLINOIS, A CORPORATION OF ILLINOIS

## ROOFING TILE

Application filed August 23, 1929. Serial No. 387,891.

My invention relates to roofing tiles and, particularly, to roofing tiles of the type provided with windows or skylights.

In general, my invention contemplates the construction of a roof tile of suitable size having flat end portions, a central opening for the reception of a window or skylight and an upstanding wall surrounding said opening. An undercut recess is formed in the upstanding wall to receive the edges of a layer of roofing material laid adjacent the tile of my invention.

For a complete description of my invention, reference is made to the accompanying drawings wherein

Figure 1 is a plan view of a preferred embodiment of my invention;

Figure 2 is an elevation;

Figure 3 is a partial section on the line 20 III—III of Figure 1; and

Figure 4 is a section along the line IV—IV of Figure 3.

Referring in detail to the drawings, the roofing tile shown therein comprises a base 25 10 having flat end portions 11 and 12. A central opening 13 is formed in the tile and is surrounded by an upstanding peripheral wall 14. The upper face 15 of the wall 14 is provided with a recess 16. The recess 16 is adapted to receive a pane of glass 17 for covering the opening 13 and permitting the passage of light therethrough. The tile 10 is preferably molded of concrete.

The recess 16 has longitudinal grooves 18 and 19 formed therein. The groove 18 is filled with cement for securing the window 17 to the tile. The groove 19 is left open to serve as a duct for the drainage of any moisture which may accumulate on the under 40 surface of the window 17 as a result of "sweating". The ducts 19 discharge into a drainage channel 20 formed in the top face of the wall 14 at the lower edge of the tile. The channel 20 discharges any collected 45 moisture onto the flat end portion 12.

An undercut recess 21 is formed in the wall 14. The recess 21 extends entirely around the wall 14 as best illustrated in Figures 2, 3 and 4. The recess 21 is provided for the reception of the edges of one or more layers

of roofing material 22 which is laid over the flat portions 11 and 12 of the tile 10 as well as over the surface of flat tiles 23 and 24 adjacent the tile 10. The character of the roofing material 22 is not material to my invention but it generally consists of one or more layers of felt paper covered with asphalt and gravel.

After the edges of the layer 22 have been inserted in the undercut recess 21 near the bottom of the outer faces of the wall 14, a gasket 25, or an elastic cement is packed into the recess to insure a water-tight joint.

A "saddle" 26 may be provided on the upper flat portion 11 of the tile 10 in order to assist in shedding rain water from the latter to prevent a possible collection of water below the upper edge of the wall 14.

The manner in which the roofing tile 10 is made use of in roof construction is indicated in Figure 4, wherein the flat tiles 23 and 24 indicate the character of the major portions of the roof. The tiles 10 are inserted between the flat tiles at such points as desired and a water-tight joint between composition 70 roofing laid on the flat tiles and the edges of the wall 14 of the tiles 10 is made possible by the undercut recess 21 provided in the latter.

One advantage which results from the use 80 of the roofing tile of my invention is that skylights may be placed in a roof at any desired point. Another advantage is that the structure provided is entirely water-tight as to the joint between the transparent portion and the surrounding wall of the tile as well as the joint between the window tile and those adjacent thereto.

Although I have illustrated and described 90 but a single preferred embodiment of my invention, it is not my intention to be limited thereto since the invention may be practiced in other forms than that illustrated within the scope of the appended claims.

I claim:

1. A roof composed of flat tiles and window tiles having vertical walls surrounding a window opening and under-cut recesses 100 therein, and a layer of protective material

laid over said flat tiles and extending into said recesses.

2. A roof composed of tiles having flat surfaces and tiles having window openings surrounded by vertical walls with grooves therein and a protective layer on said flat tiles extending into said grooves.

3. A roofing tile comprising a substantially flat slab, a window opening therein surrounded by a wall projecting well above the top of the slab, and an undercut groove in said wall slightly above the top of the slab for receiving the edges of roofing material laid over the slab.

4. A window tile for flat roofs adapted to be covered with a waterproof composition layer, comprising a flat roof slab, a window opening therein, a wall around the opening, and grooves in said wall for receiving the edges of said composition layer adjacent thereto.

In testimony whereof I have hereunto set my hand.

SOLOMON B. MYERS.

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