

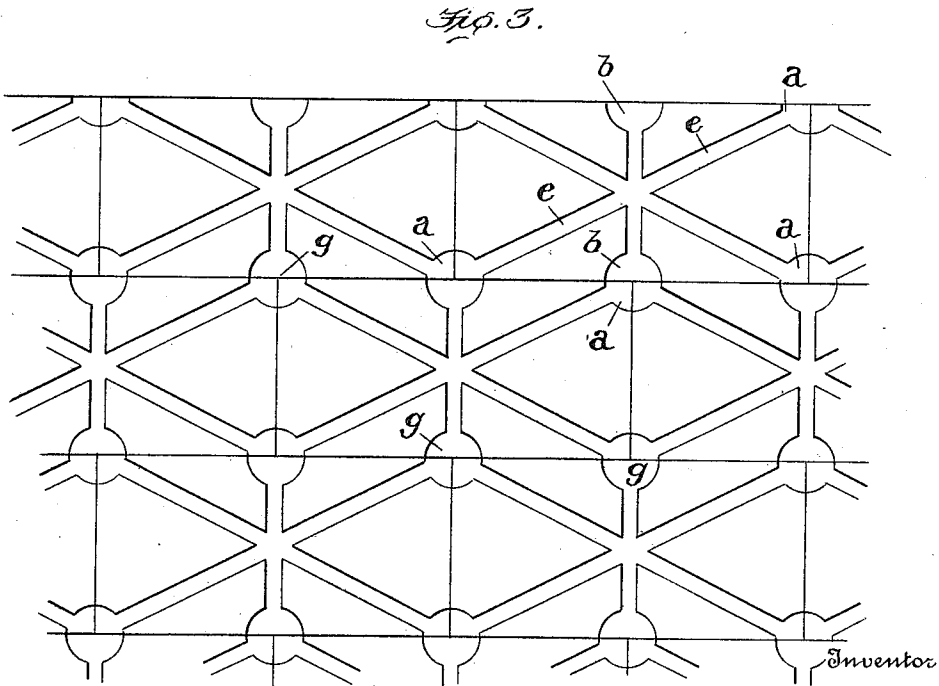
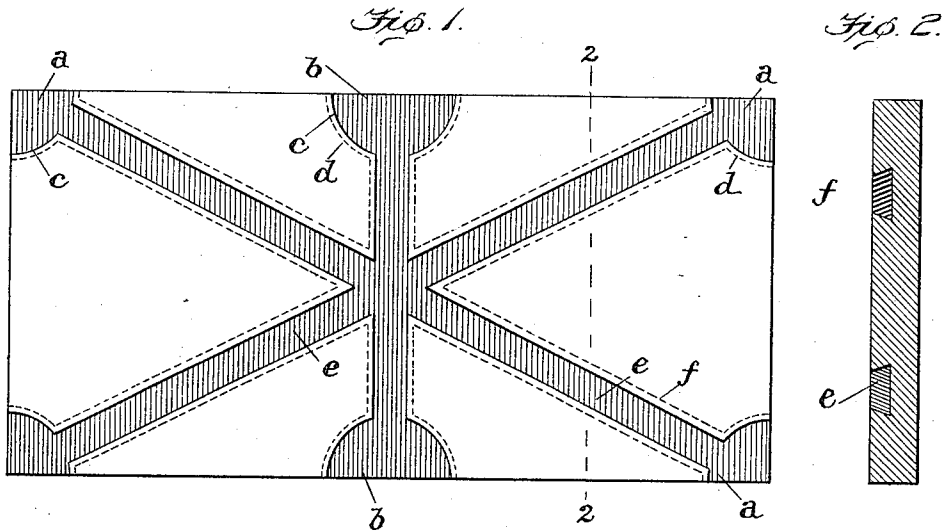
J. B. DUNN.

TILE.

APPLICATION FILED APR. 13, 1910.

972,519.

Patented Oct. 11, 1910.



Witnesses

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972,519.

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To all whom it may concern:

Be it known that I, JOSEPH B. DUNN, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Tiles, of which the following is a specification.

This invention relates to an improvement in tiles for walls and floors.

As heretofore constructed these tiles have had in their back grooves that were undercut to receive the soft cement and form a key, but it is almost impossible to get the cement on the wall to fill the grooves; one or more circular undercut recesses have also been formed in the back of tiles, but air would become imprisoned in such recesses when pressing the tile into the cement, unless provision was made for the escape of the air.

The circular undercut recesses afford the formation of a superior cement key because the larger mass of cement comprising a key of this shape makes a stronger key.

The desideratum which this invention proposes to supply is a tile provided on its back with quarter or half-circular undercut recesses formed at the edges and corners of each tile, thus when such tiles are laid and pressed in soft cement the half-circular recess of one tile will be co-incident with quarter-circular recesses of two other tiles, thereby a single large circular cement key will be formed which laps the joint of three tiles and also allows the air to escape when applying.

The invention is illustrated in the annexed drawing in which,—

Figure 1 is a view of the back of a tile. Fig. 2 is a cross-section of the tile on the line 2—2. Fig. 3 is a view showing the backs of a number of tiles placed in proper position, as when set in cement.

The tile is rectangular in shape, and at each of the four corners has a quarter-circular recess, *a*, and midway between the two ends of the tile and at each of the two longer edges is a half-circular recess, *b*. The partly-circular wall of each recess has an undercut edge, *c*, denoted by a broken curved line, *d*. The formation of partly-circular undercut recesses at the edges and corners is an essential feature of the invention.

The tile also has on its back straight grooves, *e*, whose edges are under-cut as at, *f*; each groove in the present instance is arranged to extend across the back of the tile and its two ends connect with a different undercut recess at the edge of the tile. This arrangement of cross-grooves and edge recesses serves to prevent the air from being imprisoned either in the grooves or recesses. This construction enables the recesses to be readily shaped by use of a suitable tool, and also enables the grooves to be easily formed whereby the tiles can be produced at low cost.

The formation of complete circular recesses, *g*, at the joint of three tiles is shown in Fig. 3. This complete circular recess is formed by the half-circular recess, *b*, of one tile meeting the quarter-circular recess, *a*, of two other tiles. It will thus be understood that a single key of cement will lap onto three tiles.

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

1. A rectangular wall-tile provided on its back at each corner with a quarter-circular undercut recess, and midway between the two ends of the tile and at each of two opposite edges provided with a half-circular undercut recess, whereby a number of such tiles may be set so that a half-circular recess of one tile may meet a quarter-circular recess of two other tiles and form a circular recess into which a single cement key may enter.

2. A rectangular wall tile provided on its back at each corner with a quarter-circular undercut recess, and midway between the two ends of the tile and at each of two opposite edges provided with a half-circular undercut recess and straight grooves extending entirely across the tile and the two ends of each groove connecting with a different edge-recess.

In testimony whereof I affix my signature in presence of two witnesses.

JOSEPH B. DUNN.

Witnesses:

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