May 17, 1927. 1,629,433

W. T. BONNER ET AL.

PAVING BLOCK AND TILE

Filed March 10, 1923

Fig. 1.

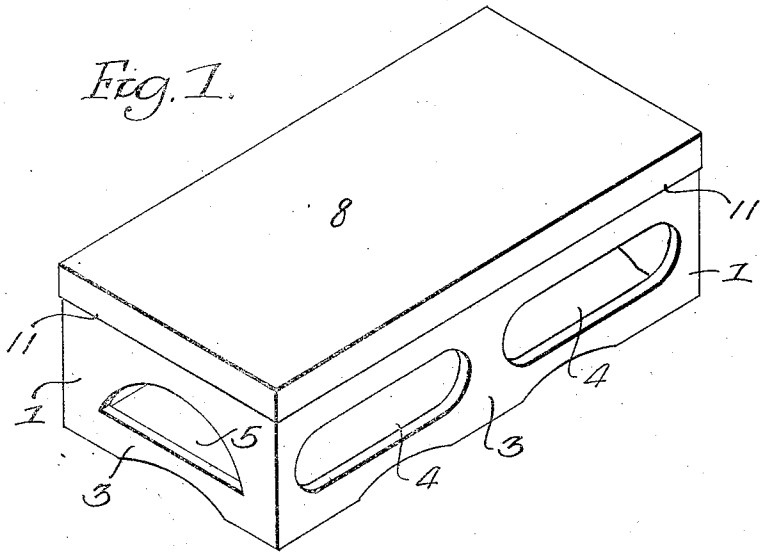


Fig. 2.

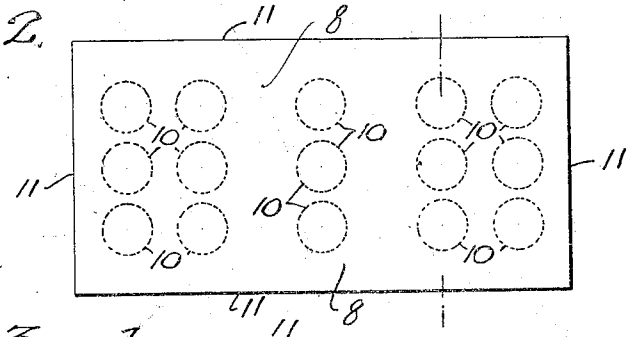


Fig. 3.

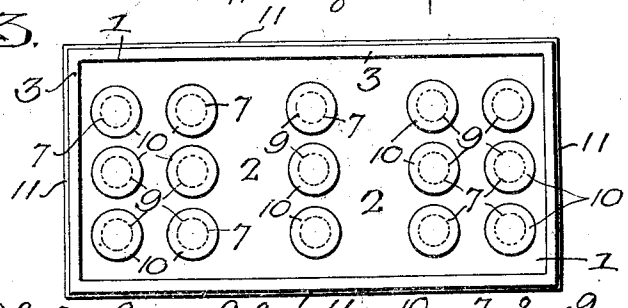
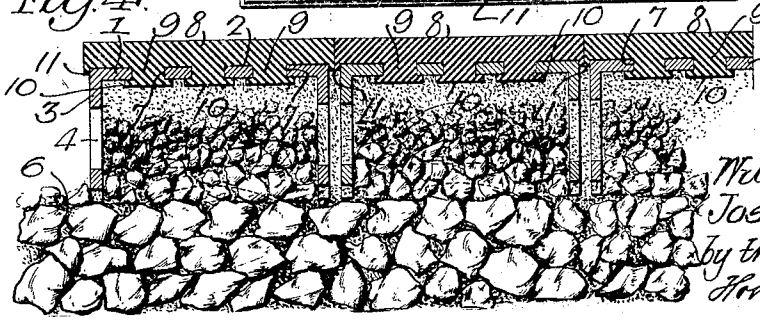


Fig. 4.



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UNITED STATES PATENT OFFICE.

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PAVING BLOCK AND TILE.

Application filed March 10, 1923. Serial No. 624,227.

Our invention relates to certain improvements in paving blocks and tiles, which are imbedded in a base of concrete, or other suitable supporting material.

One object of our invention is to make a paving block, or tile, of metal provided with a rubber face.

A further object of the invention is to design the block, or tile, so that the rubber face will extend beyond the edge of the metal body portion so that, when the blocks, or tiles, are laid, the rubber faces of adjoining blocks will be in contact to allow for expansion and contraction.

In the accompanying drawings:

Fig. 1 is a perspective view of a paving block made in accordance with our invention;

Fig. 2 is a plan view;

Fig. 3 is an inverted plan view of a paving block; and

Fig. 4 is a sectional elevation, showing a series of blocks imbedded in concrete.

In the present instance, 1 is a rectangular metallic block having a base portion 2 and deep flanges 3 on all four sides. These flanges are perforated, as at 4 and 5, to allow the concrete base 6, while in a plastic condition, to pass through the openings. It will be understood that the flanges are imbedded in the concrete. The base 2 of the block is perforated at 7. 8 is a rubber face of any depth desired. This rubber face has projections 9, which pass through openings 7 in the base of the metallic block. Buttons 10 are formed on these projections 9 during the process of vulcanization so as to lock the rubber face firmly to the base of the block.

It will be understood that the rubber face is formed in a mold, in which the metallic block is inserted. The rubber face 8 is extended beyond the edge of the metallic block, as shown, and a flange 11 extends below the face, forming a yielding abutment for an adjoining block.

The object of this construction is to allow the blocks to be placed in position with the edges of the rubber faces in contact. This arrangement allows for expansion and contraction and prevents the joints between the blocks separating. This construction also prevents water gaining access to the spaces between the blocks and freezing when the pavement is subjected to low temperatures. A pavement made in this manner is very substantial.

The faces of the blocks yield when subjected to pressure of vehicles and they are substantially noiseless. The flanges of the blocks may be of any depth desired. In some instances, they may be of a greater depth than shown, where the concrete base will admit of such construction. The flanges can be reduced to such an extent that the block can be used as a tile for flooring.

While a rectangular design is shown, the shape of the block may be varied without departing from the essential features of the invention.

We claim:

1. The combination in a paving block, or tile, of an open, flanged, metallic block, shaped to be imbedded in the face of a pavement and having perforations in its upper surface; and a series of buttoned projections extending through the perforations and engaging the block.

2. The combination in a paving block, or tile, of a flanged metallic block having a perforated base, and a rubber face having projections extending through the perforations of the base, the said projections having buttons of a greater diameter than the perforations.

3. The combination in a paving block, or tile, of an open metallic block having a perforated base and perforated flanges; and a rubber face secured to the base of the block by a series of buttoned projections, the rubber face having flanges extending at the sides of the metallic block.

4. The combination in a paving block, or tile, of an open rectangular, metallic block having a perforated base and extended perforated flanges; a yielding face of rubber having projections extending through the perforations in the base of the metallic block; buttons on the extensions confining the face to the base of the block; and flanges on the rubber face extending at the sides of the metallic block.

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