

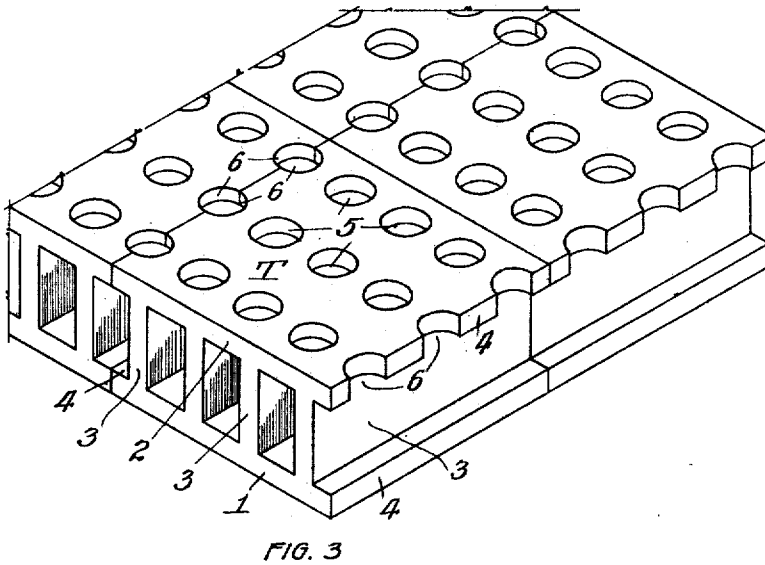
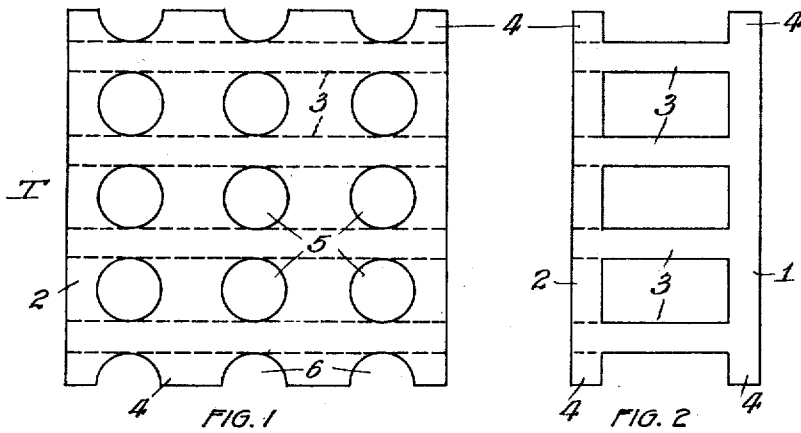
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W. E. WILSON ET AL

TILE

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1,521,922



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TILE.

Application filed April 14, 1921. Serial No. 461,410.

To all whom it may concern:

Be it known that we, WILLIAM E. WILSON and HENRY G. LYKKEN, citizens of the United States, residing at Mason City, Iowa, and Minneapolis, Minnesota, have invented certain new and useful Improvements in Tile, of which the following is a specification.

This invention relates to a tile and more particularly to a tile designed for the surface of tunnel-kiln cars. Among the objects of this invention are: to construct a tile particularly adapted for the passage of heat and air therethrough; to construct a tile particularly useful for the making of the load bearing surface of a tunnel-kiln car; to construct a tile especially adapted for the purpose stated and which is still strong enough to sustain such loads as it may be desirable to place thereon; to provide a new method of tile construction; and such further objects, advantages and capabilities as will later more fully appear.

In the drawings annexed hereto and forming a part hereof, Fig. 1 is a plan view of a tile constructed according to our invention; Fig. 2 is an end view of such a tile; Fig. 3 is a perspective view showing a plurality of adjacent tiles.

Referring more in detail to the drawings, numeral 1 designates the lower or unperforated surface of the tile T while 2 designates the upper or perforated surface of this tile. 3 are webs connecting the upper and lower surfaces which extend beyond the outer webs 3 to form flanges 4. In the upper surface of the tile are formed substantially circular perforations 5, the lateral edges of the upper surface, or upper flanges 4, being provided with semi-circular openings 6, to form with the co-operating openings 6 of the next adjacent tiles complete openings similar to 5. In this connection attention is called to the fact that only one face of the tile is shown as provided with apertures 5 and it is stated that this is by way of illustration, merely, as it will sometimes be desirable to form these tiles with apertures in both faces. This, therefore, is comprehended within the scope of our invention.

It is clear that a tile constructed as shown and described will be well adapted for the

passage of heat and air therethrough and to a material supported thereon, that an extended surface may be built up as shown in Fig. 3 by placing these tiles edge to edge, and that a tile so constructed will be sufficiently reinforced to withstand considerable loads placed thereon.

It is of course understood that the specific description of structure and method set forth above may be departed from without departing from the spirit of our invention as set forth in this specification and the appended claims.

Having now described our invention, we claim:

1. A tile having opposite substantially parallel faces, longitudinally arranged webs extending between said faces and leaving therebetween longitudinally arranged apertures, at least one of said faces having apertures extending therethrough into the spaces between the webs and also having apertures at its edge projecting laterally beyond the outer web.

2. In a structure of the character described, a plurality of webs, a plurality of face plates integral with opposite edges of said webs and extending beyond the outer lateral faces of both the outermost webs, one of said face plates having therein a plurality of perforations extending from the outer face thereof to the spaces between the webs.

3. In a structure of the character described, a plurality of webs, a plurality of face plates integral with opposite edges of said webs and extending beyond the outer lateral faces of both the outermost webs, at least one of said face plates having a plurality of regularly shaped openings extending therethrough to the spaces between the web, the oppositely projecting edges of said face plates having therein recesses, each of which is one half of one of the apertures extending through the face plate.

In witness whereof we hereunto subscribe our names to this specification.

WM. E. WILSON.
HENRY G. LYKKEN,

Witnesses:

ELMER A. ELY,
RALPH M. HODNETT.