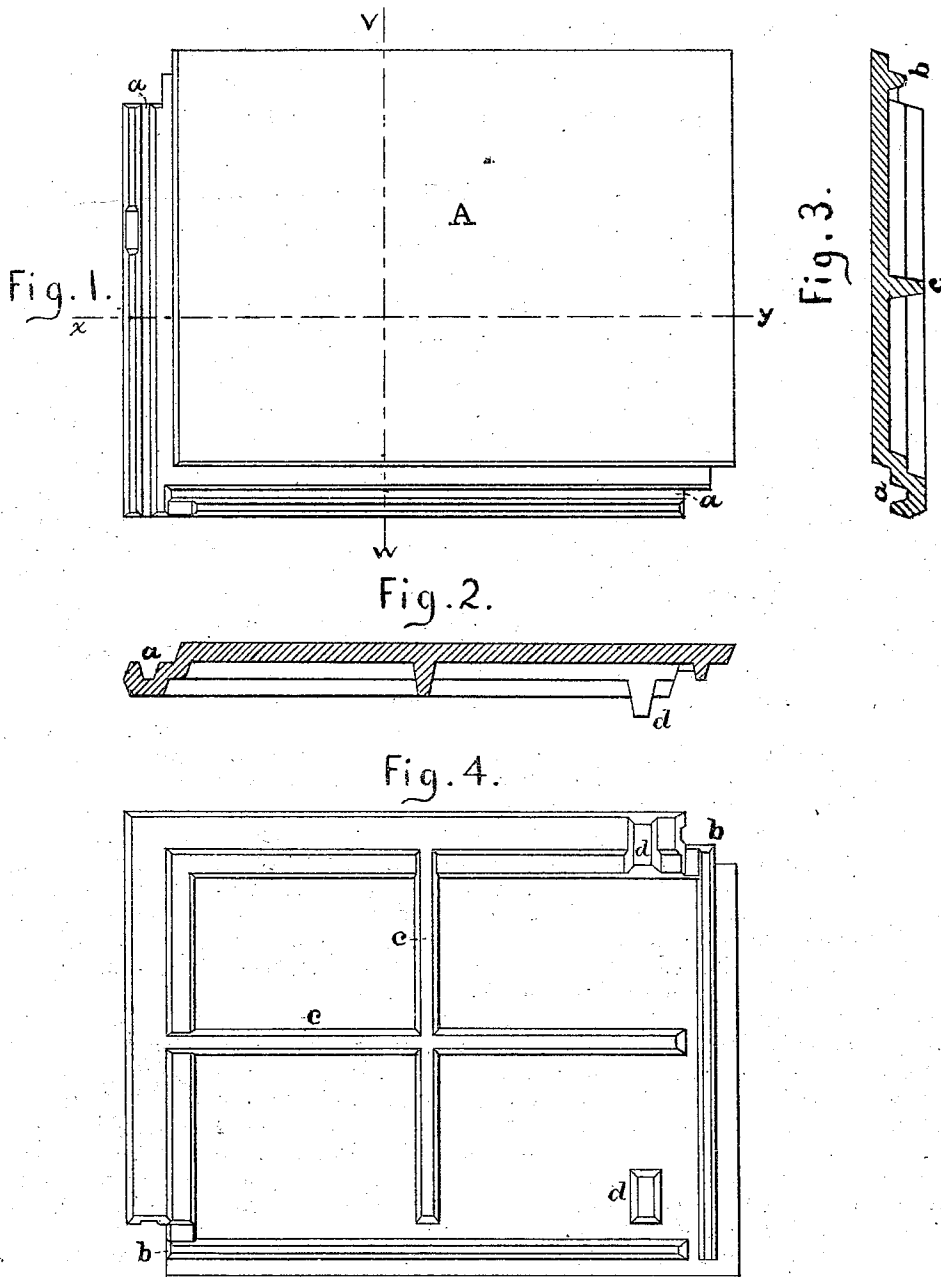


L. HAMEL.
Roofing Tiles.

No. 152,991.

Patented July 14, 1874.



Witnesses :

Carroll Webster

H. A. Daniels

Inventor :

Louis Hamel

by W. H. W. J. Howard,
his attorney.

UNITED STATES PATENT OFFICE.

LOUIS HAMEL, OF BALTIMORE, MARYLAND.

IMPROVEMENT IN ROOFING-TILES.

Specification forming part of Letters Patent No. **152,991**, dated July 14, 1874; application filed June 22, 1874.

To all whom it may concern:

Be it known that I, LOUIS HAMEL, of the city of Baltimore, in the State of Maryland, have invented certain Improvements in Roofing-Tiles, of which the following is a specification; and I do hereby declare that in the same is contained a full, clear, and exact description of my said invention, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

My invention relates to a tile constructed in such manner as to admit of joints being formed with other tiles at its four sides, the said joints being made water-tight by the insertion of mortar or cement; and, further, to a peculiar construction of the tile, whereby a plain and unobstructed outer surface is obtained. The tile is made of clay, iron, or other non-combustible substance, and the roof thus covered is therefore fire-proof.

In the accompanying drawing, forming a part of this specification, Figure 1 is a top view of my improved tile. Fig. 2 is a section upon line *x y*. Fig. 3 is a section upon line *v w*, and Fig. 4 a view of the under side of the tile.

In the drawing, in which similar letters of reference in all the views indicate similar parts of the invention, *A* represents the body of the tile, the upper face of which is plain, except at two adjacent edges, which are depressed, and the grooves *a* formed therein. The other edges of the tile have on their under side the lips *b*, of such size and shape as to fit within grooves in contiguous tiles, corresponding with the grooves above described. It will be observed that the edges of the tile, which are plain on the upper side, rest upon the depressions in the tiles next to them, and that by this means the upper faces of the tiles correspond in height when in place, or form a flat surface. The under side of the tile is excavated or recessed to lighten it, and to compensate for this reduction in thickness certain portions are left unreduced, forming the ribs *c*. Each tile is provided with one or more projecting lugs, *d*, on the under side, to engage

with strips fastened to the roof, thus to prevent the tile from being moved out of place.

It will be seen that, at the point where the tiles are lapped and the mortar or cement applied, a double joint is produced, the upper tile resting upon both edges of the groove beneath. By this arrangement no water can possibly pass from the upper to the lower side of the tile.

My tile is well adapted to roofs having a slight or great inclination, but is more particularly applicable to flat roofs, as the tiles, when laid, present a continued flat surface which can be walked over without inconvenience. The tile is, however, well designed for use on Mansard or similar roofs, and can be ornamented on its exposed surface, either in pressed figures, or other manner, so as to produce a pleasing and elegant effect.

Having described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

1. A roofing-tile having a plain upper surface, except at two adjacent edges, which are depressed, and have the grooves *a* therein, and an excavated and ribbed under surface, as shown, by a series of which tiles fitted together a roof is formed having a flat and unobstructed exposed surface, substantially as set forth.

2. A roofing-tile in which the groove into which the lip of the adjacent tile is inserted is below the upper surface of the tile, the groove forming a projection on the back or lower side of the said tile, and provided with an offset at the inner side of the said groove, upon which the edge or lip of the adjacent tile rests to form a double joint, substantially as specified.

In testimony whereof I have hereto subscribed my name, in the city of Baltimore, this 13th day of June, in the year of our Lord 1874.

LOUIS HAMEL.

Witnesses:

WM. T. HOWARD,
JNO. S. MADDOX.