No. 777,058. PATENTED DEC. 6, 1904.

W. C. MITCHELL.

TILE ROOF.

APPLICATION FILED JAN. 19, 1904.

NO MODEL.

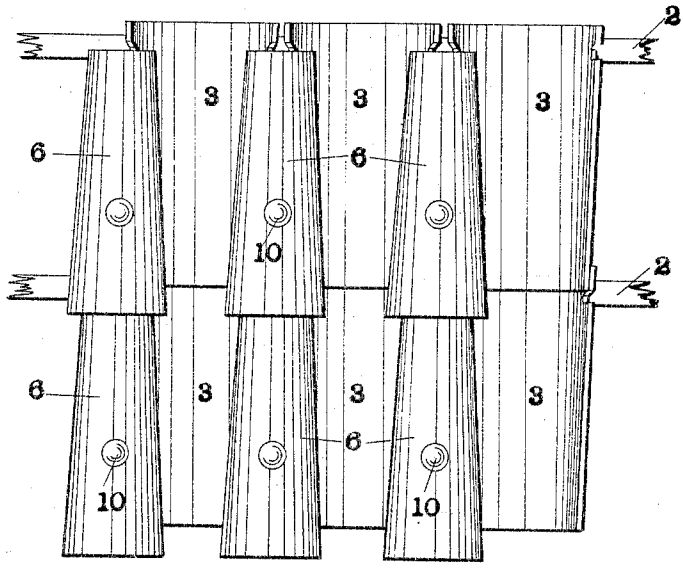


Fig. 1.

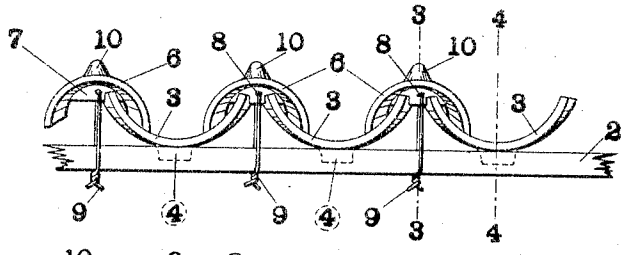


Fig. 2.

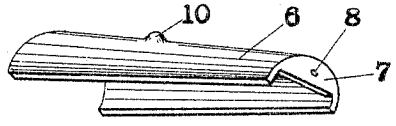


Fig. 5.

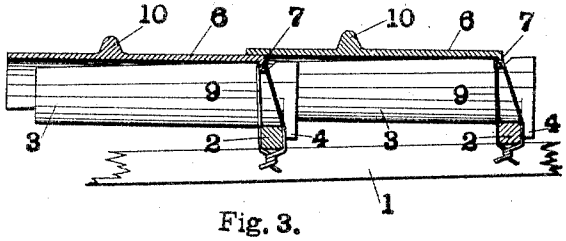


Fig. 3.

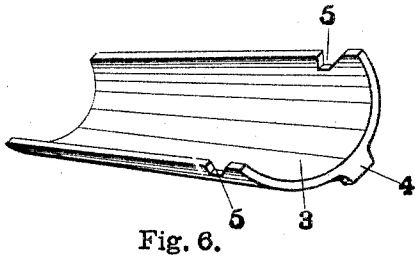


Fig. 6.

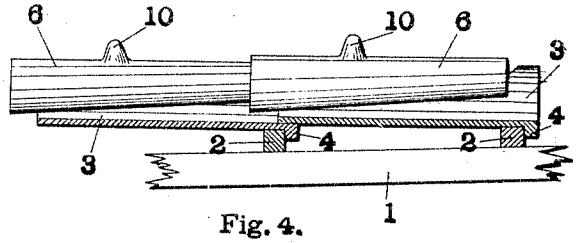


Fig. 4.

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No. 777,058. Patented December 6, 1904.

UNITED STATES PATENT OFFICE.

WALTER C. MITCHELL, OF ST. LOUIS, MISSOURI, ASSIGNOR TO MOUND CITY ROOFING TILE COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION OF MISSOURI.

TILE ROOF.

SPECIFICATION forming part of Letters Patent No. 777,058, dated December 6, 1904.

Application filed January 19, 1904. Serial No. 189,675. (No model.)

To all whom it may concern:

Be it known that I, WALTER C. MITCHELL, a citizen of the United States, and a resident of the city of Louis and State of Missouri, have invented a new and useful Improvement in Tile Roofs, of which the following is a specification.

My invention relates to roofing-tiles, and has for its principal objects to secure a staggered effect in tile roofs, to simplify the means for securing the tiles in place, to dispense with the use of nails in securing tiles in place, and thus allow for the warping of the roof, and other objects hereinafter more fully appearing.

My invention consists in the parts and in the arrangements and combinations of parts hereinafter described and claimed.

In the accompanying drawings, forming a part of this specification, and wherein like symbols refer to like parts wherever they occur, Figure 1 is a plan view of a section of roof made with my improved tiles. Fig. 2 is an end view of the section shown in Fig. 1. Fig. 3 is a section on the line 3 3 of Fig. 2. Fig. 4 is a section on the line 4 4 of Fig. 2. Fig. 5 is a perspective view of the roll-tile of my improved roof. Fig. 6 is a perspective view of the pantile of my improved roof.

Upon the usual rafters 1 of the roof purlins 2 are secured, separated from each other by substantially the length of the tile. Pantiles 3, each provided with a hanger 4 upon the under surface at the upper end, rest upon the purlins, with the hangers hooked thereon. The lower ends of each horizontal series of tiles overlap the upper ends of the tiles of the next lower series. No other fastening means are applied directly to the pantiles. These tiles are concave upwardly, as is shown in Figs. 2 and 6, and terminate at the sides with upwardly-extending edges. Near the top these edges are provided with notches 5 to accommodate the hangers on the roll-tiles. The position of the notches may be varied in order to increase or diminish the staggered effect of the roof. The pantiles are arranged near each other, but not in lateral contact. Over the upwardly-extending edges of the pantiles upwardly-convex roll-tiles 6 lap. Upon the under surface at the upper edge each is provided with a hanger 7, provided with a hole 8. The hanger 7 engages the notches 5 in the adjacent edges of the two pantiles, and thus prevents relative movement of the tiles. A wire 9 is passed through the hole 8 and around a purlin 2 to fasten the tile down. The upper surface is provided with a projection 10, which serves the purpose of a cleat upon the roof for climbing. The hangers 4 and 7 thus prevent downward movement of the tiles, while the wires 9 hold the tiles down on the purlins. The wires being long, warping of the roof will not injure the tiles, as some relative movement will be permitted. The pantiles 3 and roll-tiles 6 are substantially the same length. The notches 5 5 being below the upper ends of the pantiles, the roll-tiles will extend below the lower ends of the former and produce a staggered effect. The roll-tiles are preferably segments of a cone, and thus relieve the roof from the monotony of parallel lines.

Obviously the tiles admit of modification within the scope of my invention, and therefore I do not wish to be limited to the specific form shown and described.

What I claim is—

1. The improvement in tile roofs comprising pantiles each terminating laterally in upwardly-extending edges provided with notches and each provided with a hanger on the under surface, and roll-tiles arranged to overlap adjacent edges of said pantiles and each provided with a hanger arranged to engage said notches in said pantiles, said hanger having a hole therein to receive a fastening-wire.

2. The improvement in tile roofs comprising substantially conico-segmental pantiles of substantially uniform thickness arranged in horizontal rows with their concave faces upward, the pantiles of one row overlapping those of the next lower row, notches in the lateral edges of each pantile near the upper end thereof and below the lower edge of the pantile of the next upper horizontal row of

pantiles, and each pantile provided with a hanger on its convex surface, and substantially conico-segmental roll-tiles of substantially uniform thickness arranged with their convex faces upward and overlapping adjacent edges of said pantiles, each extending below the horizontal row of said pantiles to which it is connected and provided with a hanger arranged to coöperate with said notches in said pantile.

Signed at St. Louis, Missouri, this 16th day of January, 1904.

W. C. MITCHELL.

Witnesses:
W. P. GRATH,
FRED F. REISNER.