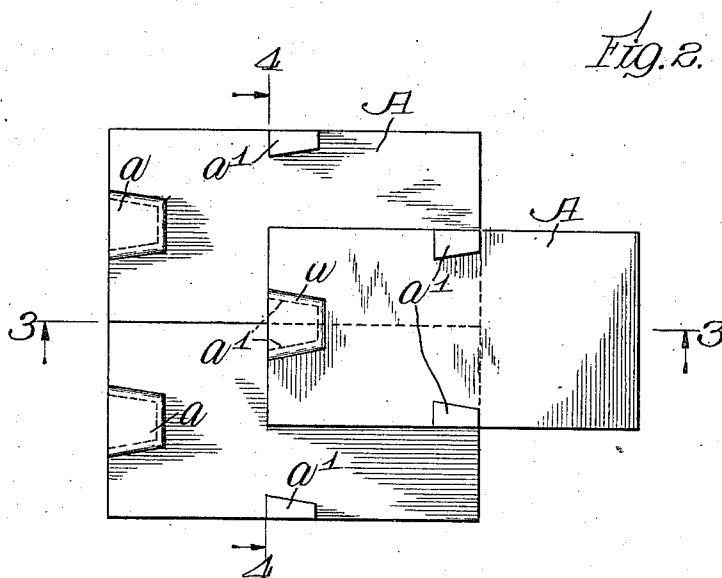
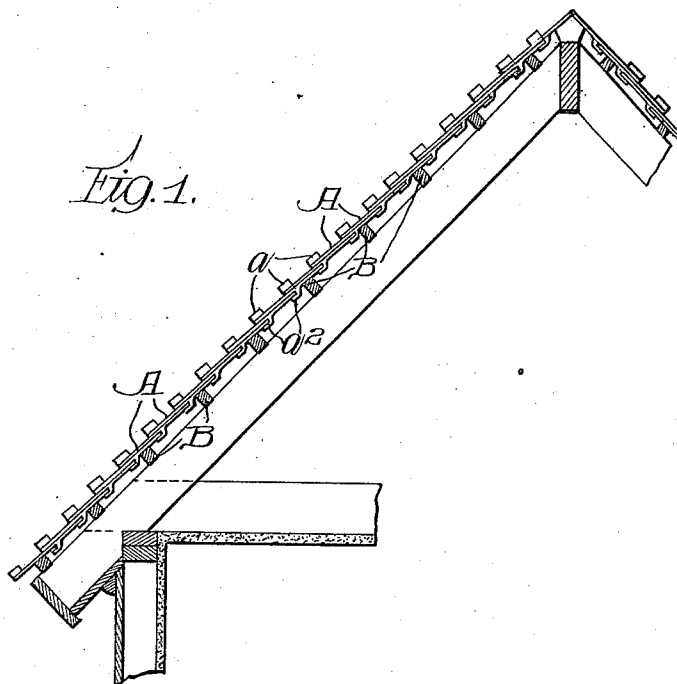


DE WITT W. BUCHANAN.
 TILING FOR ROOFS.
 APPLICATION FILED JULY 8, 1909.

989,328.

Patented Apr. 11, 1911.

2 SHEETS—SHEET 1.



Witnesses:
J. O. Donahue Jr.
W. B. Bridges

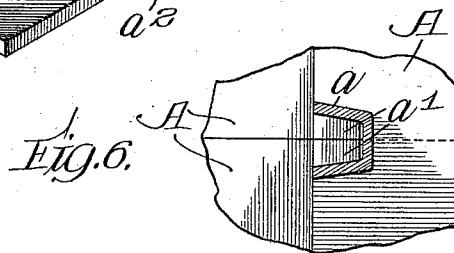
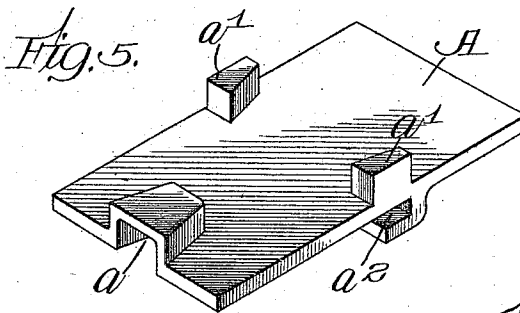
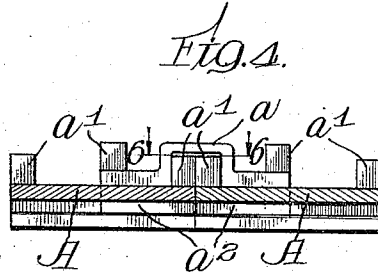
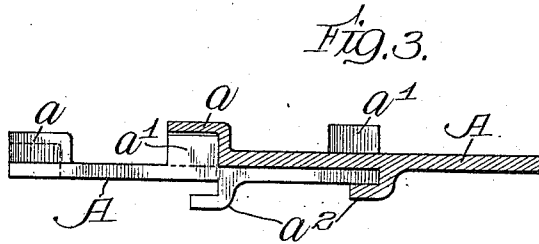
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By Bulley, Burdett & Co.
 Attorneys

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2 SHEETS-SHEET 2.



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Inventor:
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UNITED STATES PATENT OFFICE.

DE WITT W. BUCHANAN, OF CHICAGO, ILLINOIS.

TILING FOR ROOFS.

989,328.

Specification of Letters Patent.

Patented Apr. 11, 1911.

Application filed July 8, 1909. Serial No. 506,507.

To all whom it may concern:

Be it known that I, DE WITT W. BUCHANAN, a citizen of the United States of America, and resident of Chicago, Cook county, Illinois, have invented a certain new and useful Improvement in Tiling for Roofs, of which the following is a specification.

My invention contemplates an improved tiling for roofs, of such character that it may be laid like shingles, but without using any fastening devices, the square or rectangular tiles being provided with interlocking portions which hold them together, and the weight of the tiling, when properly assembled, serving to hold it in place on the roof.

In the accompanying drawings—Figure 1 is a section of a roof covered with tiling embodying the principles of my invention. Fig. 2 is a plan, on an enlarged scale, of three of the tiles, showing the same in proper relative position. Fig. 3 is a section on line 3—3 in Fig. 2. Fig. 4 is a section on line 4—4 in Fig. 2. Fig. 5 is a perspective of one of the tiles. Fig. 6 is a detail section on line 6—6 in Fig. 4.

As thus illustrated, my invention consists of a tiling made up of square or rectangular tiles A, each tier of tiles resting on the upper ends of the tier below. In the construction of the roof, each tier of tiles may be supported by a beam B supported on the rafters. See Fig. 1. In reality, however, the tiling supports itself between rafters, (the latter being separated a distance greater than the width of a single tile), by reason of the interlocking provisions, as will hereinafter more fully appear. The beams B are, therefore, of use only in laying the tiling. After the roof is finished, the tiling forms a stiff and rigid covering that would be fully self-sustaining between rafters.

Each tile is formed at its lower edge with a pocket *a*, and upon its upper surface with lugs *a'*, one at each side. A lip *a*² extends across the bottom of each tile, which lip is adapted to interlock with the upper edge of two tiles in the tier below. See Figs. 2 and 3. The pocket *a* has a slight taper, and the

lugs *a'* taper on their inner sides. Thus each pocket *a* is adapted to engage and interlock with two of the lugs *a'*, one on each of two tiles, and to crowd them together. This serves to keep the side edges of the tiles pressed tightly against each other. The greater the weight of the tiling, the greater the tendency of the tiles to crowd tightly and rigidly together. The lips *a*² prevent the tiles from rising relatively to each other. In this way each tile is held down by the tile below it, as well as by the tile above it.

When properly assembled, the tiles form a stiff or rigid and waterproof covering for the roof. No fastening devices are necessary, owing to the interlocking portions of the tiles, and the general effect resembles that of shingles.

Any suitable material may be used for the tiling, but fire-proof materials, such as those that are well known in connection with the manufacture of tiling, are preferable.

It will be seen that each lip *a*² forms a strengthening rib below the lugs *a'*, and extends from one lug to another, to form a bond between them. Thus, increased strength is afforded at the point where the two lugs of the plate tend to draw apart.

What I claim as my invention is:

A tiling composed of overlapping plates, each plate having a pocket at its lower end, a lug at each side thereof, said lugs tapered on their inner sides, each pocket tapered to receive two of said lugs, each on a different plate, and each plate provided with a lip on the lower surface thereof, each lip engaging the upper ends of two plates, said lips being directly below the said lugs, each lip extending from one lug to another, to form a bond between them, whereby each lip forms a strengthening rib at the point where the lugs tend to draw apart.

Signed by me at Chicago, Illinois, this 30th day of June, 1909.

DE WITT W. BUCHANAN.

Witnesses:

WILLIAM ARIS,
E. H. CLEGG.