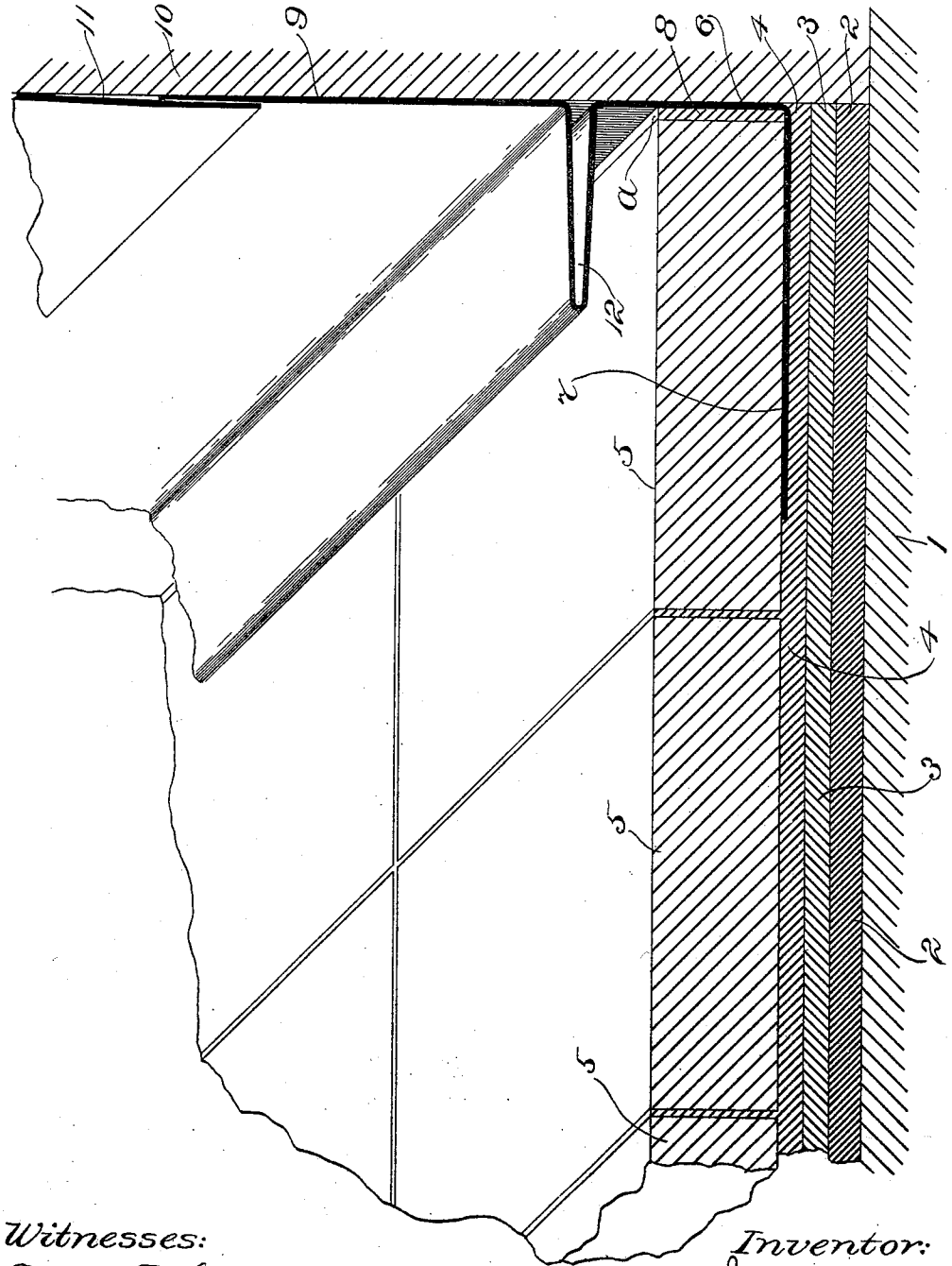
(No Model.)

T. J. HIND.

FLASHING FOR USE IN BUILDING CONSTRUCTION.

No. 596,266. Patented Dec. 28, 1897.



Witnesses:
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UNITED STATES PATENT OFFICE.

THOMAS J. HIND, OF BOSTON, MASSACHUSETTS.

FLASHING FOR USE IN BUILDING CONSTRUCTION.

SPECIFICATION forming part of Letters Patent No. 596,266, dated December 28, 1897.

Application filed April 5, 1897. Serial No. 630,726. (No model.)

To all whom it may concern:

Be it known that I, THOMAS J. HIND, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Flashing for Use in Building Construction, &c., of which the following is a specification, reference being had therein to the accompanying drawing.

In one well-known style of roof construction the surface is formed by first laying a bed of cement upon the foundation of the roof, upon that laying a sheet of waterproofing material, above that a second bed of cement, and in that bed a final surfacing of tile. Where the tile borders a perpendicular wall, chimney, or parapet, a metallic flashing is employed, it consisting of a plate or plates at right angles or at other suitable angle, so as to be L-shaped in cross-section or substantially so, and having one portion extending beneath the tiling and the other portion lying vertically against the wall and being overlapped by the copper sheathing of the wall where the latter sheathing is employed. The joint between the border-row of tiles and the upright portion of the flashing is filled in with cement, flowed in as full as possible. It has been found, however, that in spite of every care in laying the roof leakage ultimately will occur at the edge next the flashing and the water will find its way under the tiles and around the inner edge of the part of the flashing which is beneath the tiles. Moreover, the water which is driven against the copper-sheathed face of the wall in a storm combines with a portion of the copper and chemically disintegrates the cement and thereupon penetrates to and around the under edge of the flashing. I find also that as the ordinary L-shaped flashing is firmly nailed at and near the two edges thereof to the wall and roof its vertical contraction in cold weather lifts the angle portion of it and heaves up the edge of the tile and the cement resting upon that angle. This dislocating effect is too slight to be perceived by the eye; but owing to the frequent alternations of heat and cold and of sunshine and shadow upon the flashing the cement at the edge of the tiling is soon mechanically disintegrated. This mechanical disintegration not only acts of itself to produce a leak, but it greatly hastens the above-mentioned chemical disintegration produced by the copper-water.

My invention has for its object the prevention of such leakage and the production of an absolutely tight joint between the roof and the upwardly-extending wall or the like.

My invention consists, chiefly, in forming the flashing with an overhanging fold just above the surface of the tile. This overhanging fold catches the copper-water and deflects it upon the surface of the tile itself, whence it runs away from the wall by reason of the pitch of the roof. When the flashing contracts and expands in consequence of changes of temperature, the said fold gives in one direction or the other—that is, expands and contracts inversely—and relieves the angle of the flashing from all strain and movement, thereby obviating the mechanically-produced disintegration which is mentioned above.

I will first describe my invention with reference to the accompanying drawing, which represents the best embodiment thereof which I have yet contrived, and afterward the particular characteristics thereof will be distinctly defined in the claims at the close of this specification.

The said drawing is a perspective illustrating my invention applied to portions of a roof and adjoining wall, the same parts being represented as cut by a vertical plane parallel to the picture-plane.

1 is the foundation of the roof. 2 is the layer of cement thereon.

3 is the layer of waterproofing material, which is applied above the cement 2.

4 is the bed, in which the tiling is laid.

5 5 are the tiles.

6 is the flashing, it having the portion 7 extending under the tile 5, which is located next adjacent to the wall 10, and having also the vertical portion 9, extending up the wall 10.

8 is the cement, which is flowed in at the joint between the tile 5 and the flashing.

11 is the copper sheathing of the wall, it continuing up from the upper edge of the portion 9 of the flashing and overlapping by its lower edge the upper edge of the said flashing.

12 is my novel overhanging fold of the flashing, the extent of overhang being preferably

about three inches and the distance above the surface of the tile being preferably about half an inch or just enough to provide for cleaning out dirt that may gather beneath it.

As will be obvious from inspection of the drawing, the said fold projects beyond the seam or joint at the edge of the roof which is next adjacent the wall and acts to deflect water wholly away from such seam or joint.

I lay no claim, broadly, to a flashing having a fold or corrugation therein to permit the same to contract and expand.

What I claim is—

1. The combination with the upwardly-extending wall and the adjacent roof, of a flashing extending up the said wall and provided with an outwardly-extending fold above the surface of the said roof, the said fold projecting beyond the seam or joint at the edge of the roof which is adjacent to the wall and acting to deflect water away from such seam or joint substantially as described.

2. The combination with the upwardly-extending wall and the adjacent roof, of a flashing extending up the said wall and provided with an overhang immediately above the surface of the said roof, the said overhang projecting beyond the seam or joint at the edge of the roof which is adjacent to the wall and acting to deflect water away from such seam or joint substantially as described.

3. The combination of a wall, a roof having a bed layer and a surface layer, and a flashing extending under said surface layer and up said wall and provided with an overhanging fold immediately above the edge of the said surface layer, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS J. HIND.

Witnesses:

ISAAC MOFFATT,

LEPINE HALL RICE.