July 8, 1924.

S. B. FAISON

1,500,675

ROOF FLASHING

Filed April 6, 1923

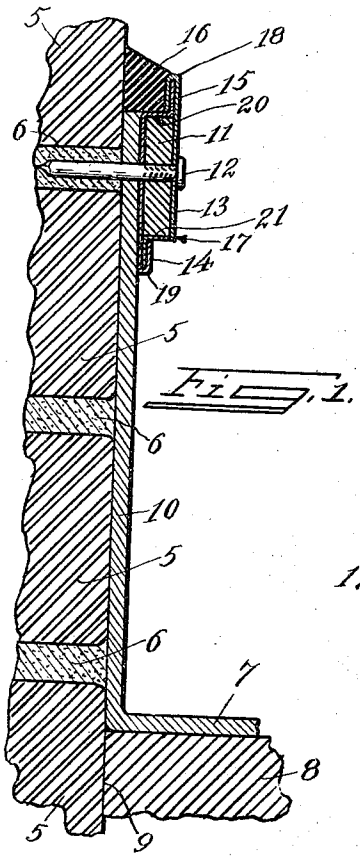


Fig. 1.

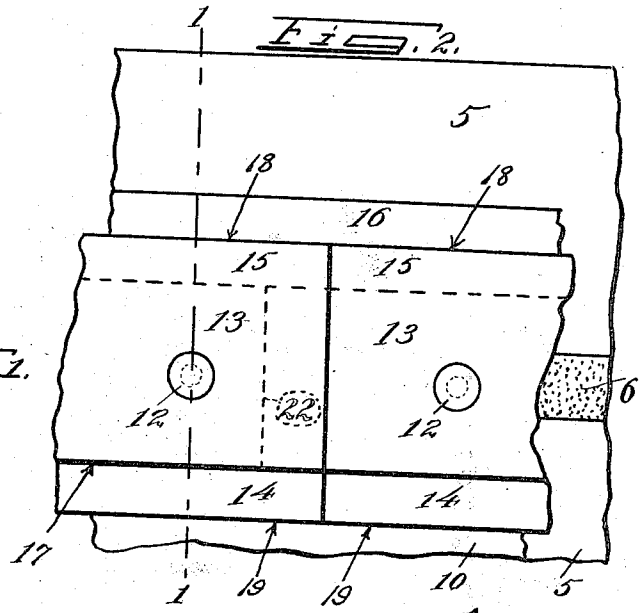


Fig. 2.

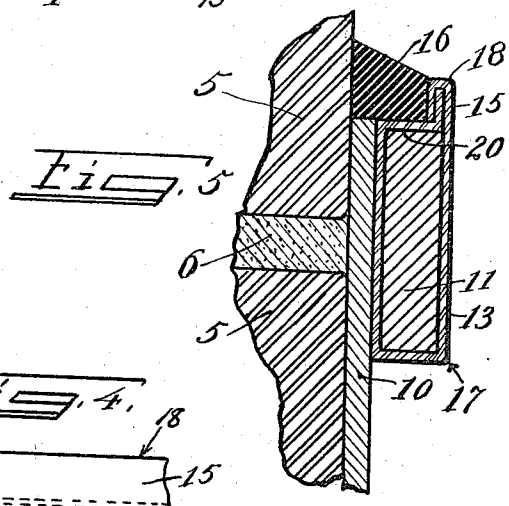


Fig. 5.

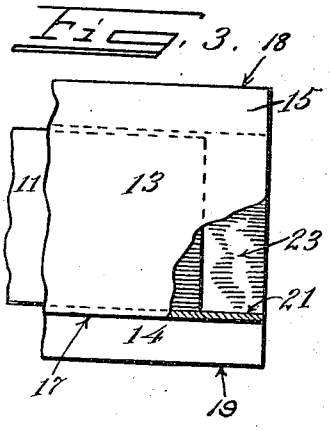


Fig. 3.

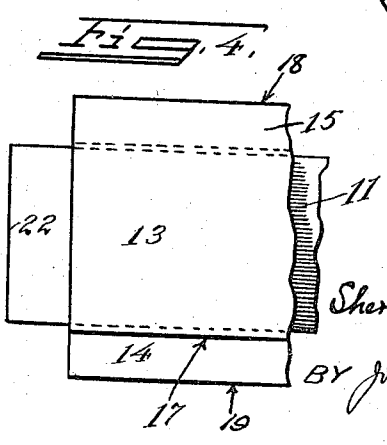


Fig. 4.

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UNITED STATES PATENT OFFICE.

SHERWOOD BADGER FAISON, OF CINCINNATI, OHIO.

ROOF FLASHING.

Application filed April 6, 1923. Serial No. 630,332.

To all whom it may concern:

Be it known that I, SHERWOOD BADGER FAISON, a citizen of the United States of America, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented a certain new and useful Improvement in Roof Flashings, of which the following is a specification.

This invention relates to roof-flashings that are adapted to water or weather proof the joint between the vertical face of the fire-wall of a building and the adjacent inner edge of the main roof-covering, and its object is to provide a metal-incased wooden strip or other suitable re-inforcing filler or core with an upper rim or vertical extension and which is adapted to be nailed, together with the up-turned inner edge or flashing-margin of the said main roof-covering, into the face of the said wall for securing the flashing in place, with a firm and tight water or weather proof joint and without liability of the said filling of the said flashing-strip to materially split or fracture that would otherwise loosen or weaken the flash-joint and permit leakage therethrough. Another feature of the invention herein is to provide the said metal-incased re-inforcing wooden strip or filling with a tenon-and-mortise joint, between meeting lengths or sections thereof, to obviate loose joints and to otherwise rigidly bind the meeting or contacting ends of the said sections together, always proof against alinement breakage.

The details of structure and method of application will be fully described hereinafter and then more particularly pointed out in the claims that follow same.

In the accompanying sheet of drawings—

Figure 1 is a cross-section, taken on line 1, 1, of Fig. 2, of a roof-flashing fastening or re-inforcing strip embodying one form of my invention and showing it applied to the desired face of a fire or other brick wall, the latter and the upturned flashing-member of the roof-covering being shown in section, including, also, the mortar between the courses of brick, the plastic-filler in the guttered upper part of said fastening-strip and the contiguous main roof-covering, together with the roof boarding or deck on which the said main roof-covering is laid; Fig. 2, a fragmentary front elevation of the improved flashing-strip herein, showing it in nailed position on the desired face of the wall and including a tenon-and-mortise joint in abutting or end-to-end sections or lengths of the said strip; Fig. 3, a front elevation of one broken-off end of the flashing fastener-strip herein, it being the end containing the mortise or socket for the joint between sections of strip; Fig. 4, a front elevation of the broken-off tenon-end of the flashing fastener-strip that is adapted and intended by me to coact with the said mortised-end seen in the adjacent view (Fig. 3) to the left; and Fig. 5, a cross-section (out of line with the nail) of the preferred form of filler or core and metal sheathing therefor, the latter having but an upright flange along its fore upper edge and no lower flange or extension such as that in Fig. 1.

In Fig. 1, I have shown an ordinary wall made up of bricks 5 laid in horizontal courses, with the mortar or cement filled joints 6 between them, as customary.

7 indicates the main roof-covering which may be of composite or other desired material and laid upon the boarding or roof-sheathing 8 whose inner edge 9 abuts the desired co-operating face of the wall.

10 indicates the upturned inner edge or desired margin of the said main roof-covering 7 and constitutes the flashing-proper, or that part of the building-structure which makes joint with the said face of the wall. This flashing usually rises to a height equal to a little more than several courses of brick, as best shown in Fig. 1, and, along its upper margin, a closing or fastening strip 11 is used.

Ordinarily, the said fastening-strip 11 is made of wood and similar to an ordinary lath, but the driving of suitable large-size nails 12 through it has caused it to split and become defective for the water and weather proof service intended and expected of it. To rectify such a serious and material defect is one of the essential features of my invention herein and I do it by encompassing the strip 11 with a metal sheathing or casing 13 which, (in one form herein), has a pendent rear flange or projection 14 and an upright fore flange or projection 15, the said rear flange 14 contacting with the face of the wall and the fore flange 15 providing a gutter or receptacle that extends over the flush upper edge of the upright flashing 10, and is adapted and intended to receive the filling 16 of plastic material that seals the

upper part of the flashing against any and all leakage, and thus being water and weather proof, as well as dust and dirt proof too.

The upper face of the said plastic-filling 16 is preferably inclined or beveled off so as to afford proper drainage to the outer face of the flashing-strip, whence such drainage descends to the outer lower corner 17 of the strip and drips therefrom, the pendent rear flange 14 adding protection, if any is needed, against any possible leakage upwardly into the joint by capillary attraction or seepage.

In Fig. 1, I show the metal sheathing or casing 13 as being constructed of several corresponding members, which are easily made and easily assembled on the wooden filler 11. Each of these corresponding parts has a right-angled bend along one edge and a U-shape one along the other edge, the U-shape bend 18 of the upper fore-flange of the outer-member being turned or disposed inwardly and the U-shape bend 19 along the lower edge of the inner-member being turned or disposed outwardly, while the said right-angled bends 20 and 21 in the said several corresponding members are the reverse. It is quite obvious, however, that the said metal casing 13 can be and is preferably formed or shaped out of a single piece of material, if desired, as I do not limit or confine myself to the two-member form shown and described herein. When made of a single piece it is shaped as shown in Fig. 5, there being no lower flange-extension 14, but the upper flange-extension is the same as in Fig. 1.

The fastening-strip 11 is preferably made of wood, but it may be made of cement or similar material. When placed within the metal casing or sheathing 13 it forms a filler or core strip 11 that will not warp or break, or become otherwise impaired in any material or defective way for the best use that a flashing-strip can be put to.

The metal-covered filler-strips will be made ordinarily in lath lengths, but their actual lengths for use will be more or less varied to suit conditions.

Without the metal sheathing the wooden fastener-strips cannot be securely held in place, as only small nails can be used on account of their easy cracking and splitting, when large and adequate strong nails should be used to properly and permanently secure the flashing in workmanlike and water and weather proof condition on the wall. Besides, the unarmored wooden strip is subject to curl at its ends and thereby draw or pull away from its anchorage on the face of the wall, and much more trouble and injury result. The metal-sheathed strip herein can and will prevent any curling, but, to make that feature doubly sure and to positively hold the composite armored strips in perfect alinement in every way, I provide a tenon-and-mortise joint between the meeting or abutting ends of these strips, the tenon and its companion mortise being easily formed by extending the wooden filler-strip 11 beyond the end of its metal sheathing the desired distance to constitute a suitable tenon 22, and thereby bringing its opposite end the same distance inwardly from the other end of the said metal sheathing, the wooden filler-strip, initially, being the same length as that of the metal sheathing and thus leaving a cavity or socket to form a mortise or connecting-pocket 23 for the said tenon 22 when two armored strips are brought together, end to end, in the operation of setting and fastening the flashing in place on the wall for making a closed or sealed joint for the roof.

Sheet-metal flashing alone, as commonly used, is difficult to hold in place on the wall and to properly point up, because the mortar cracks and falls out and lets water enter back of the flashing, all of which is an expensive operation, especially in old brick walls where raking out of joints is necessary to receive the flashing. With metal-covered wooden filler cores or strips there is no need to rake out joints, and any size nail, necessary to hold the strip and flashing in place, is used.

Besides, the metal-sheathed strip always remains in its proper place, and, therefore, outlasts other forms in use, and at much less cost, as a result. It eliminates the old form of recesses or steps in the face of the wall for the flashing, because it always follows the line parallel with the roof, which is of much importance in the jointing of a roof.

The upright inner portion or flashing 10 of the roofing is stuck in place on the wall by means of the usual adhesive.

It will be seen that, in the event the wooden filler-strip 11 should split within the metal casing or sheathing, no impairment would take place, for the very obvious reason that, while splitting, the resultant expansion, due to the driving-action and presence of the nails, causes the tighter clinching or gripping of the wooden filler, or even a cement or other filler, within the walls of the said metal sheathing or casing, and thereby renders the device, as a whole, the more compact and the less likely to become loose within.

I claim:—

1. As an article of manufacture, a roof-flashing fastening and re-inforcing strip comprising a filler or core of wood or the like and a metal sheathing or covering encompassing the said filler or core.

2. As an article of manufacture, a roof-flashing fastening and re-inforcing strip

comprising a filler or core made of wood or the like and a metal sheathing or covering encompassing the said filler or core, such sheathing being made in one piece of metal having a longitudinal bore or chamber for the filler or core and with its upper aproaching ends provided with a right-angled formation along one edge and a U-shape formation along the other edge, the outer vertical limb of the said right-angled formation engaging or interlocking with the said U-shape formation and providing a receptacle along the top of the said metal sheathing and the top of the adjacent flashing for a plastic-filler, substantially as herein shown and described.

3. As an article of manufacture, a roof-flashing fastening and re-inforcing strip comprising a filler or core made of wood or the like for the peculiar purpose herein described, and a metal sheathing or covering encompassing the said filler or core with one of the ends of the latter extending outwardly beyond the end of the sheathing and the other end terminating at approximately the same distance within the other end of the said sheathing so as to form a tenon-and-mortise connection or joint between two meeting or abutting ends of fastening-strips in forming a fastening, together with suitable nails or the like for the upright inner end or flashing of a water and weather proof joint between the face of a wall of a building and the main portion of the roof-covering on the building-structure, substantially as herein shown and described.

4. As an article of manufacture, a roof-flashing fastening and re-inforcing strip comprising a filler or core of wood or the like and a metal sheathing encompassing the said filler or core and having an upper fore extension or guard-flange that is adapted to form a gutter or receptacle on the upper edge of the strip and the adjacent upper edge or top of the flashing for the deposit or insertion of a plastic-filling in contact with the face of the building wall and prevent leakage into the joint of the flashing with the wall.

SHERWOOD BADGER FAISON.