Aug. 19, 1941. H. CALLAWAY 2,252,834

ROOF FLASHING

Filed Sept. 19, 1939

Fig. 1.

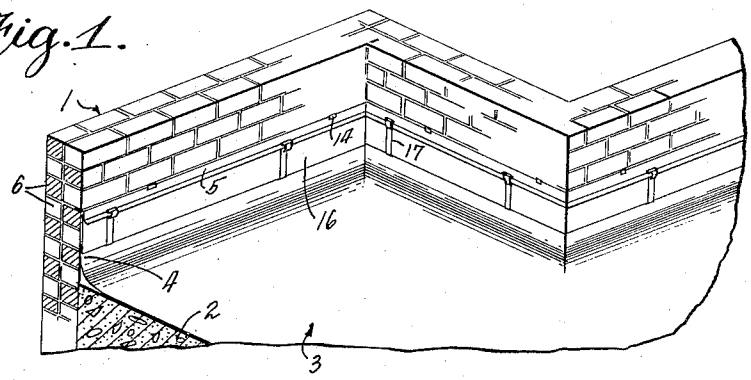
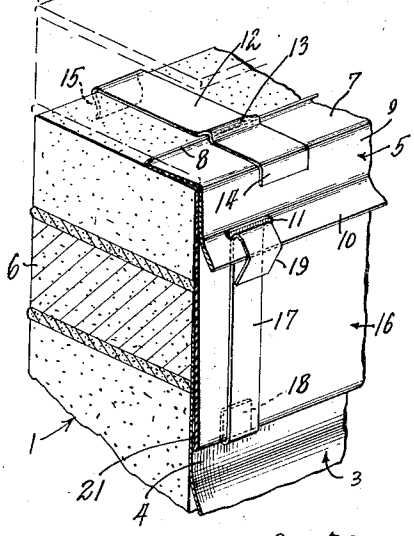


Fig. 2.



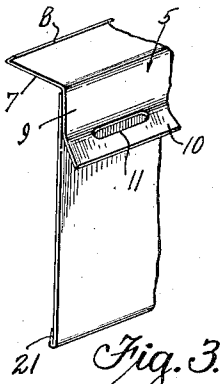


Fig. 3.

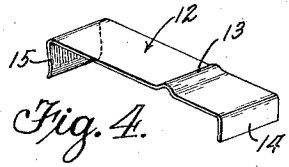


Fig. 4.

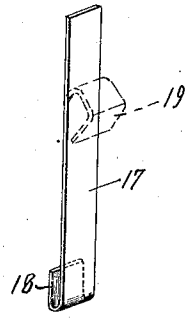


Fig. 5.

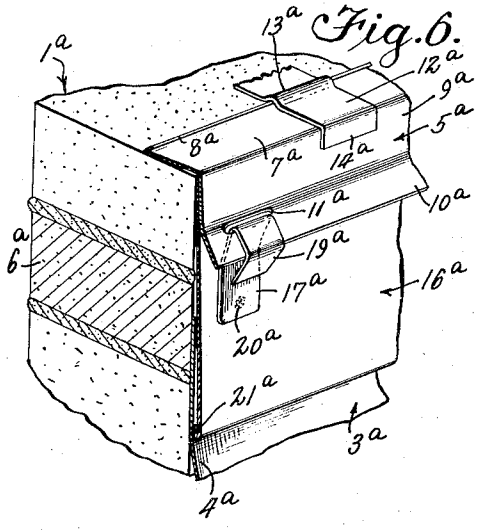


Fig. 6.

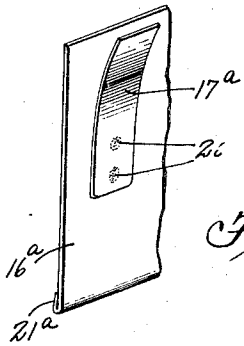


Fig. 7.

Inventor

Hal Callaway

By Lyon & Lyon

Attorneys

Patented Aug. 19, 1941

2,252,834

UNITED STATES PATENT OFFICE

2,252,834

ROOF FLASHING

Hal Callaway, Los Angeles, Calif.

Application September 19, 1939, Serial No. 295,610

5 Claims. (Cl. 108—26)

This invention relates to flashings for roofing, or the like, and is more particularly related to the flashing of brick or other masonic walls.

In the connecting of angular walls to form a waterproof connection, as for example in the connecting of roofing with a fire wall, deck wall, wall parapet or the like flashing and counterflashing have heretofore been utilized. The particular problem presented, however, has been to so connect such a wall with a roofing material as to enable the formation of a waterproof connection in an inexpensive manner, using a minimum of labor, to provide a neat appearing connection which is readily detachable to permit inspection of the roofing or reroofing as may be desired or required without destroying the wall, roofing, flashing or counterflashing.

It is, therefore, an object of this invention to provide a means of forming a waterproof connection between a roofing or wall material and a masonic wall, which will be of permanent character, easily applied, or removed as desired or required.

Another object of this invention is to provide a means of forming a waterproof connection between a masonic wall and a roofing or like wall, floor or roof material which includes a flashing adapted to be embedded within and secured to the masonic structure, a counterflashing adapted to overlie the said wall material, and an interlocking means for releasably connecting the flashing and the counterflashing, and wherein a waterproof or resisting connection is formed between the flashing and counterflashing.

Other objects and advantages of my invention it is believed will be apparent from the following detailed description of a preferred embodiment thereof as illustrated in the accompanying drawing, wherein for convenience I have illustrated my invention as in use in flashing a brick fire wall to a composition sheet roofing. It will be apparent to those skilled in the art that this illustration is only one adaptation of my invention given for the purpose of description, explanation of its principles and mode of operation.

In the drawing:

Fig. 1 is a perspective view of a roof or deck and fire wall illustrating the flashing as embodying my invention as adapted thereto.

Fig. 2 is a fragmental transverse perspective section thereof during laying of the brick or other masonic block or stone.

Fig. 3 is a detached fragmental perspective sectional view of the flashing and counterflashing of my invention.

Fig. 4 is a detached perspective view of the flashing tie plate of my invention.

Fig. 5 is a detached perspective view of the locking band embodied in my invention illustrating in dotted lines the band as bent to locking position.

Fig. 6 is a fragmental sectional perspective view of a modified form of flashing, counterflashing and releasable locking means embodying my invention.

Fig. 7 is a detached fragmental perspective view of the counterflashing and attached locking band of my invention as illustrated in Fig. 6.

The preferred embodiment of my present invention is particularly adapted for use in connection with brick, stone, or other masonic walls wherein the wall structure is constructed of superimposed bricks or the like connected together through the medium of suitable mortar, cement, or the like.

In this modification of my invention the deck or fire wall 1 is illustrated as of such masonic structure connected at the edge of a roof or deck 2 formed of suitable concrete. Roofing material 3 which may be any suitable material which is commonly referred to as roofing paper, composition or metal, is laid upon the surface of the roof 2 so that its edge portions 4 extend up the inner surface of the wall 1. The flashing embodying my invention includes flashing members 5 which are laid in the masonic wall 1 during its construction between the bricks or other members forming the wall. Thus the flashing members 5 are positioned as indicated in Figure 2 and are secured in position through the medium of their horizontal flanges 7 which terminate in the hook flange 8. The vertically extending skirt 9 of the flashing 5 terminates at its lower end in an outwardly diverging securing flange 10 having locking means receiving recesses 11. The flashing 5 is held in position by means of tie straps 12 which are so formed as to include a locking detent 13 into which the hook flange 8 fits and at its opposed ends with downwardly extending holding flanges 14 and 15 which are spaced apart a distance corresponding with the width of bricks 6 or other masonic element used in the formation of the wall 1.

The members 12 are formed of a bendable material such as galvanized plate so that they may be bent to conform with the dimensions of the said masonic members, particularly at their rear flanges 15. After the flashing 5 is thus secured in position, the mortar, cement or other material is spread over the members 12 and the horizontal

flanges 7 and the next layer of bricks or the like added until the wall is completed. Thus the flashing 5 is embedded within the cementitious material used to form the masonic wall 1. The counterflashing 16 in this modification of my invention may consist merely of a strip of galvanized sheet metal of such width as to extend under the skirt 9 and over the upturned edge 4 of the roofing material 3. When thus positioned, the counterflashing 16 is secured in position through the use of locking strips 17 which are preferably formed at their lower end to provide hook sections 18 which are adapted to hook under the edge of the counterflashing 16. The upper locking ends of the strip 17 are then extended through the recesses 11 and bent over as indicated at 19 to lock the counterflashing 16 in position. During this locking, a definite tension is imposed upon the locking strips 17 as they are bent over the angular flange 10 so that the yielding of this angulated flange provides a resilient holding in position of the counterflashing 16 whereby the upper edge 4 of the roofing material 3 is clamped against the inner surface of the wall 1.

In case repair or re-roofing or inspection of the roofing is required at any time, this may easily be accomplished by merely removing the locking strip 17 and the counterflashing 16, thereby enabling easy access to the upper edge of the roofing material 4. Obviously the flashing may be again completed after inspection without the necessity of providing new or additional counterflashings or securing means.

In the modified form of my invention as illustrated in Figures 6 and 7, similar parts have been indicated with similar numerals with the addition of an exponent "a" thereto.

In this modification of my invention, all parts are similar to those heretofore described with the exception of the locking strips 17^a which are here illustrated as being secured through the use of suitable securing elements such as riveting or welding the same to the face of the counterflashing 16^a as indicated at 20^a. In this modification of my invention the locking strips 17^a are slightly bent outward so that they may be easily inserted through the locking recesses 11^a of the flashing 5^a to be bent over as indicated at 19^a in the same manner as described in connection with the first modification of my invention.

In order to prevent undue rubbing and wear of the upwardly extending portion 4 of the roof 3, I prefer to bend the material forming the counterflashing 16 and 16^a upon itself as indicated at 21 and 21^a, respectively.

Having fully described my invention, it is to be understood that I do not wish to be limited to the details herein set forth, but my invention is of the full scope of the appended claims.

I claim:

1. In a wall and roofing material connection for a masonic roof, the combination of a flashing having a section adapted to be embedded in said masonic structure, a skirt, and a flare section, a tie plate having end engaging portions, an angular hook engaging section for securing the flashing in position, a counterflashing adapted to be inserted between the masonic structure and the skirt, and a tie band adapted to be secured at one end to the counterflashing and to be releasably secured at the other end to said flashing at a bent end.

2. In a wall and roofing material connection for a masonic roof, the combination of a flashing having a section adapted to be embedded in said masonic structure, said flashing providing and angle flange having locking means receiving recesses, a counterflashing adapted to be inserted between the masonic structure and the flashing, and locking strips connecting the counterflashing and the angular flange in said recesses for releasably securing the counterflashing to the flashing.

3. In a wall and roofing material connection for a masonic roof, the combination of a flashing having a section adapted to be embedded in said masonic structure, the flashing having a vertically extending skirt, a counterflashing adapted to be interposed between the skirt and the masonic structure, and spaced locking strips adapted to be releasably engaged under the lower edge of the counterflashing and with the flashing for holding the same releasably in position.

4. In a wall and roofing material connecting means, the combination of a flashing having a vertically extending skirt adapted to lie against the wall, means for securing the flashing in position, a counterflashing strip inserted between the skirt and the masonic structure and extending therebelow, a plurality of locking strips adapted to be releasably connected between the counterflashing and the flashing, and said locking strips being composed of sections of bendable metal adapted to be releasably secured to the flashing by extending through locking recesses formed therein.

5. In a wall and roofing material connecting means, the combination of a flashing having a vertically extending skirt adapted to lie against the wall, means for securing the flashing in position, a counterflashing strip inserted between the skirt and the masonic structure and extending therebelow, a plurality of locking strips adapted to be releasably connected between the counterflashing and the flashing, said locking strips being composed of sections of bendable metal adapted to be releasably secured to the flashing by extending through locking recesses formed therein, and said locking strips being secured in spaced relation along the length of the counterflashing.

HAL CALLAWAY.