Sept. 13, 1927. 1,642,165

E. R. McCAFFREY

FLASHING

Filed March 5, 1921

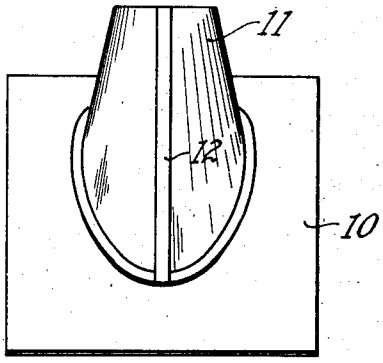


Fig. 1

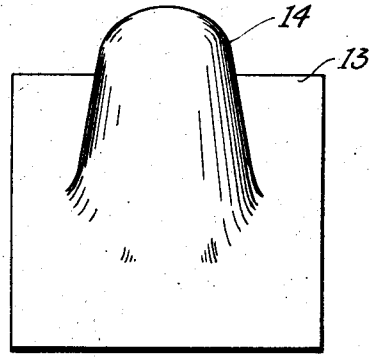


Fig. 2

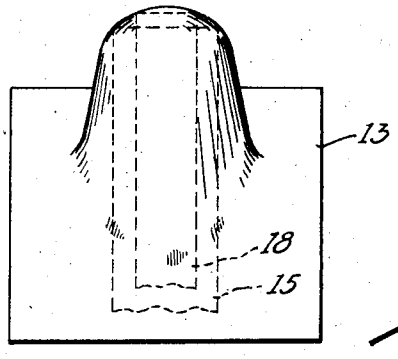


Fig. 3

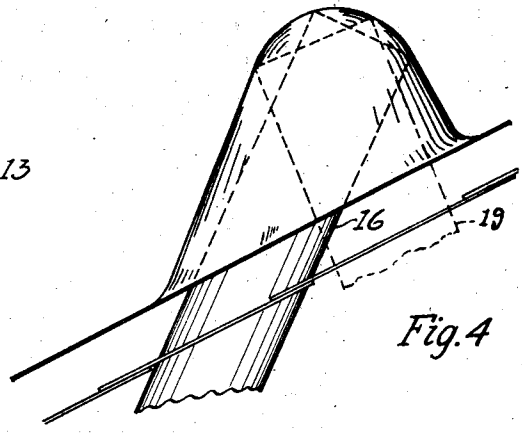


Fig. 4

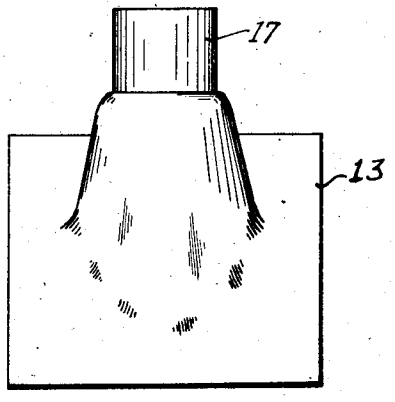


Fig. 5

INVENTOR:
Edward R. McCaffrey
By E. J. Andrews
Atty.

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UNITED STATES PATENT OFFICE.

EDWARD R. McCAFFREY, OF SPOKANE, WASHINGTON.

FLASHING.

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This invention relates to flashings and has for its object a method of producing roof flashings for vent pipes and the like which can be very conveniently and cheaply made and applied and which have certain advantages over the ordinary flashings in use.

Of the accompanying drawings Fig. 1 is a perspective view of an ordinary type of flashing; Fig. 2 is a flashing in shape to be applied to the roof, which embodies the features of my invention; Figs. 3 and 4 represent the flashing in the process of being applied to the roof; Fig. 5 is the completed flashing as finally applied to the roof.

An ordinary flashing, such as is illustrated by Fig. 1, is usually formed by punching an opening through a sheet 10 of suitable metal and connecting to the margin of the opening the enlarged end of a conically shaped member 11, the connection being made by soldering or crimping the edges together, or in some other suitable manner. The conical member 11 is formed by cutting out a suitable sheet of metal and bending it into shape and then connecting, by a seam 12, the adjacent edges. A flashing so constructed is subject to deterioration by rusting or otherwise, as moisture and moist dirt collect in the seams and rust follows; and also the form of the flashing itself is not so strong as the form which I provide.

The process by which I provide the flashing and attach the flashing to the roof is to press from a suitable sheet of metal 13 the conically shaped portion 14 which is adapted to form the uprising flange of the flashing, and, being pressed from the original sheet itself, it is connected thereto without any seam or break of any kind in the metal and also has no longitudinal seam corresponding to the seam 12. Hence, a flashing formed in this manner has no portions which are likely to collect moisture or dirt and thus become rusted, and weak. Also the manner of pressing the sheet provides a very strong connection between the conical shaped member and the base 13. The flashing, as shown in Figs. 2 to 4, is thus provided ready for application to the roof; and it is applied by passing the projecting member 14 over the vent pipe 15 which projects from the roof of the building, holding the flashing so that the base 13 is substantially parallel with the roof of the building and with the inner surface of the number 14 resting directly on the upper end of the pipe. The operator, then, by means of a hammer or other suitable tool, taps the flashing around the sharp upper edge of the vent pipe, cutting the sheet metal substantially through entirely around the edge of the pipe, and he then breaks from the flashing the circular sheet of metal thus formed, and presses the flashing downwardly with the vent pipe projecting through the opening formed, and connects the base 13 to the roof in any ordinary or suitable manner. In this way the flashing is formed to fit both the roof and the pipe, and the margin of the opening formed in the flashing fits snugly around the pipe so as to prevent leakage of rain between the flashing and the pipe.

By forming the outer end of the flange portion 14 with a rounded crown the flashing can be formed to fit pipes of various sizes, within reasonable limits, such as the pipes 15 and 18; and also, by forming the flange portion conically, the flashing may be fitted for any angle between the roof and the pipe between reasonable limits such as the very acute angle made by the pipe 16, or the right angle of pipe 19. Fig. 5 shows the flashing completely installed on a normal pipe 17, it being understood that the base 13 is attached to the roof in any ordinary or suitable manner.

The process of forming and applying the flashing is thus suitable for any reasonable pipe and roof, and it is fitted exactly to the structure to which it is applied; and a flashing is produced that is very effective in preventing leakage, is strong, dependable, and durable, and is very cheaply and conveniently made.

I claim as my invention:

1. A process of forming flashings consisting in drawing from the inner portion of a metal sheet a conically shaped projecting flange portion having a rounded outer end, whereby the flange portion is integral with the base of the flashing, in passing the projecting portion over a pipe so that the rounded end portion presses against the end of the pipe, and in cutting out an opening in the said end portion by tapping the sheet metal against the edge of the pipe end.

2. A process of forming flashings consisting in drawing from the inner portion of a metal sheet a conically shaped project-

ing flange portion having a rounded outer end, whereby the flange portion is integral with the base of the flashing, in passing the projecting portion over a pipe so that the rounded end portion presses against the end of the pipe, in cutting out an opening in the said end portion by tapping the sheet metal against the edge of the pipe end, and in then pressing the flashing downwardly with the pipe in the roof to be protected passing through the opening, whereby the margin of the opening will fit snugly against the pipe.

3. A process of forming flashings consisting in drawing from the inner portion of a metal sheet a conically shaped projecting flange portion having a rounded outer end, whereby the flange portion is integral with the base of the flashing, in passing the projecting portion over a pipe so that the rounded end portion presses against the end of the pipe, in cutting out an opening in the said end portion by tapping the sheet metal against the edge of the pipe end, and at the same time holding the base of the flashing substantially parallel with the roof.

In testimony whereof, I hereunto set my hand.

EDWARD R. McCAFFREY.