Dec. 29, 1964 A. A. CAPARRELLI 3,163,101

VENT FLASHING CAP

Filed March 26, 1963

Fig. 1

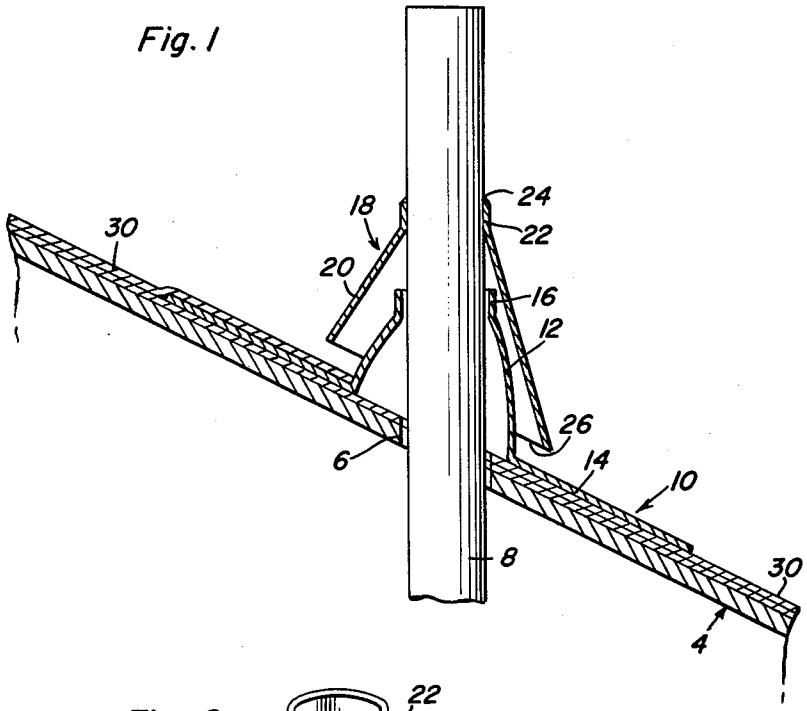
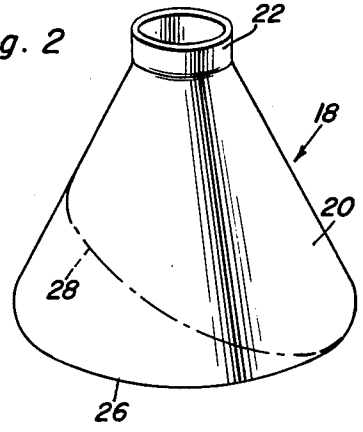


Fig. 2



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United States Patent Office 3,163,101 Patented Dec. 29, 1964

3,163,101

VENT FLASHING CAP

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Filed Mar. 26, 1963, Ser. No. 268,131
3 Claims. (Cl. 98—46)

This invention generally relates to vent stack or pipe flashings and has for its primary object to provide, in a manner as hereinafter set forth, novel means for positively preventing leakage between the usual flashing unit and the stack.

Another important object of the present invention is to provide a cap of the character described which obviates the usual caulking between the flashing unit and the stack, permitting free relative movement therebetween.

Still another object is to provide a cap of the aforementioned character which is adapted to be expeditiously installed without structurally modifying the stack, flashing unit or the roof.

Further objects are to provide a vent flashing cap of the character set forth which is comparatively simple in construction, strong, durable, compact, of light weight and which may be manufactured at low cost.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawing forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

FIGURE 1 is a vertical sectional view, showing a vent flashing assembly embodying the present invention installed; and

FIGURE 2 is a perspective view of the cap per se.

Referring now to the drawing in detail, it will be seen that the reference numeral 4 generally designates a portion of a pitched roof. The roof 4 has formed therein a vertical hole or opening 6 through which a vent pipe or stack 8 passes. As usual the stack 8 is spaced from the wall of the opening 6.

A flashing unit 10 of copper or other suitable metal is provided for the stack 8. The flashing unit 10 includes a generally bulbous vertical sleeve 12 which encircles the stack 8 in spaced relation thereto. Formed integrally with the lower end of the sleeve 12 is an inclined base flange or plate 14 which is secured on the roof structure 4 around the opening 6. In the embodiment shown, the sleeve 12 terminates at its upper end in a cylindrical collar or neck 16 which encircles the stack 8 in spaced relation thereto. It will be noted that the fishing unit 14 is free of the stack 8.

For preventing leakage between the stack 8 and the upper portion of the sleeve 12, a cap or shield 18 is mounted on said stack in spaced relation to said sleeve. The cap or shield 18 comprises a single piece of suitable sheet metal to be soldered to the stack 8 which is usually of copper. Toward this end, the cap 18 includes a generally frusto-conical skirt or hood 20 the lower portion of which is adapted to receive the sleeve 12 in spaced relation thereto. In the embodiment of the invention which has been illustrated, the hood 20 terminates at its upper end in an upstanding neck or collar 22 which snugly receives the stack 8 and is soldered thereto as indicated at 24. The lower end 26 of the hood 20 is spaced from the roof structure 4 and cut to parallel same, as shown. In FIGURE 2 of the drawing, the broken line 28 indicates how the lower portion of the hood 20 may be cut to conform to the pitch of the roof structure 4.

It is thought that the functioning of the invention will

be readily apparent from a consideration of the foregoing. Briefly, the flashing unit 10 is installed in the usual manner, with the exception that the usual caulking around the stack 8 is omitted, as hereinbefore stated. The cap 18 is then slipped downwardly on the stack 8, the neck or collar 22 snugly receiving said stack. The lower end 26 of the hood 20 may be cut at the desired angle before or after being mounted on the stack. With the hood 20 encircling the sleeve 12 and spaced as desired from the roof structure 4, the neck or collar 22 is soldered at 24 to the stack 8, thus positively securing the cap 18 in position. As will be apparent, the solder 24 also functions as a seal between the collar or neck 22 and the stack 8. Thus, leakage around the stack 8 through the neck or collar 22 is positively prevented. As hereinbefore indicated, leaving this sleeve 12 free of the stack 8 and spaced therefrom allows free relative movement between said stack and said sleeve, also the roof structure. Such free relative movement is also permitted by reason of the spacing of the cap 18 from the sleeve 12. However, the construction and arrangement also is such as to prevent snow from being blown upwardly from beneath the hood 20 and entering the sleeve 12 at the top thereof. In FIGURE 1 of the drawing, reference numeral 30 designates composition shingles or other roofing on the roof 4.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

1. In combination, an inclined roof having a circular vertical opening therein, a cylindrical vent stack extending through the opening in spaced concentric relation to the wall thereof, a flashing unit including a generally bulbous, vertical sleeve encircling the stack in spaced relation thereto and further including an integral, inclined base flange on its lower end secured on the roof around the opening, a cap mounted on the stack over the sleeve, said cap comprising a generally frusto-conical hood encircling the sleeve and having its lower end spaced from the base flange, said cap further comprising a single piece of easily cut and pliable sheet metal whereby said lower end of the hood may be readily cut to parallel the roof, said cap still further comprising an integral, upstanding cylindrical neck on its upper end snugly receiving therethrough and hugging the stack and conforming to the curvature thereof, and solder affixing the neck to the stack and sealing the joint therebetween.

2. The combination of claim 1, said sleeve including an integral, upstanding cylindrical neck on its upper end encircling the stack in spaced, concentric relation thereto anud free thereof for permitting free relative movement therebetween.

3. The combination of claim 2, said cap being spaced from the sleeve and having its lower end beveled and paralleling the base flange.

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