C. W. WICKS.

SANITARY EAVES TROUGH.

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1,243,119.

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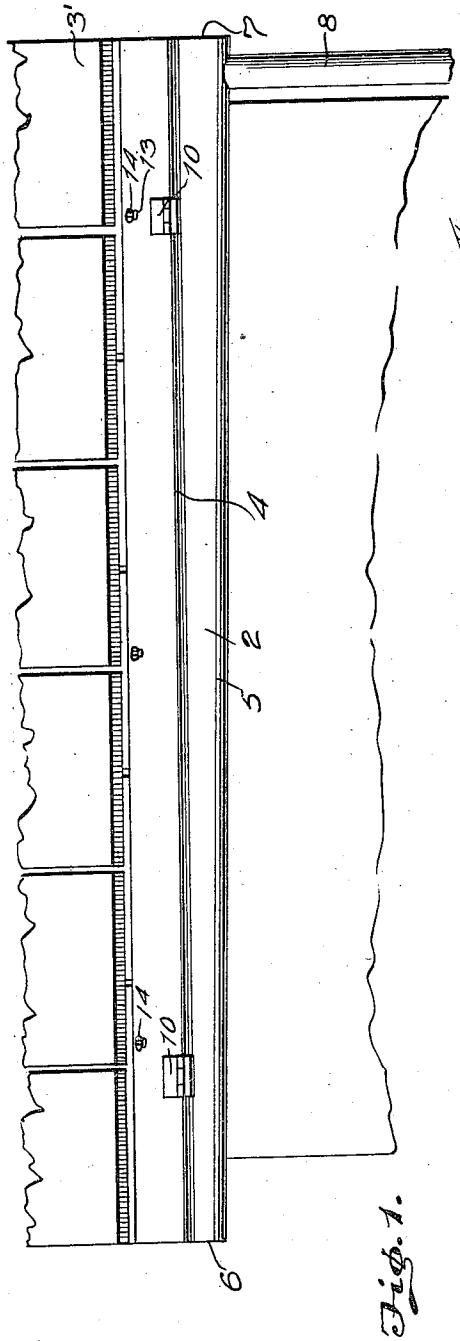


Fig. 1.

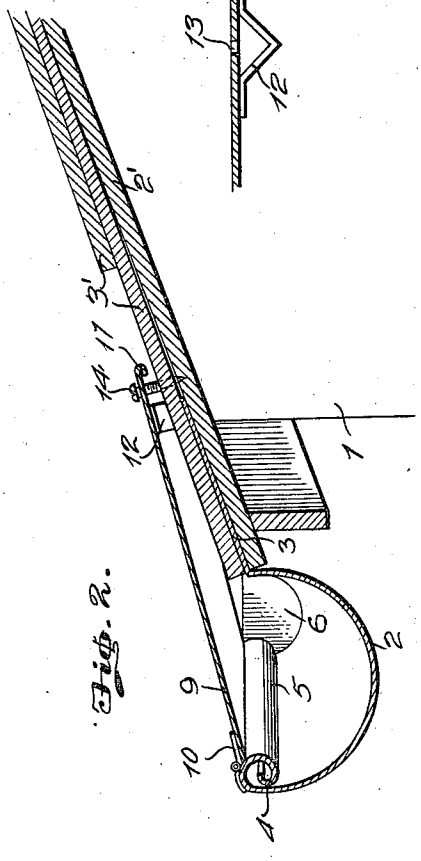


Fig. 2.

Fig. 3.

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SANITARY EAVES-TROUGH.

1,243,119. Specification of Letters Patent. Patented Oct. 16, 1917.

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To all whom it may concern:

Be it known that I, CHARLES W. WICKS, a citizen of the United States, residing at Neponset, in the county of Bureau and State of Illinois, have invented certain new and useful Improvements in Sanitary Eaves-Troughs, of which the following is a specification.

My invention relates to an eaves trough and more particularly to an eaves trough cover.

As a primary object, the present invention contemplates the provision of a novel cover for an eaves trough for preventing the accumulation of snow, leaves and other debris in the trough, novel means being carried by the cover for holding the same in closely spaced relation with the roof of the building to which the trough is connected to consequently permit water to flow upon the cover and enter the trough.

One object of my invention resides in the provision of a cover peculiarly arranged with an eaves trough for preventing snow that is on the roof from sliding into the trough, thereby relieving the trough of this additional weight, which is usually incident to eaves troughs at present, and consequently increasing the longevity of the trough.

A further object of my invention resides in the provision of a trough constructed into tapering formation from its outlet end, this arrangement permitting of water within the trough to pass through the outlet of the trough without overflowing, novel means being also provided on the outer edge of the trough for preventing the water from splashing over the sides of the trough and falling on the ground beneath.

A still further object of my invention resides in the provision of a device of the character described that is simple in construction, efficient in operation and one that can be manufactured and placed on the market at a minimum cost.

Other objects as well as the nature, characteristic features and scope of my invention will be more readily understood from the following description taken in connection with the accompanying drawings and pointed out in the claim forming a part of this specification.

In the drawings:

Figure 1 is a front elevational view of my invention associated with the eaves of a building, the latter being only partly shown;

Fig. 2 is an enlarged transverse sectional view of my invention illustrating to advantage the manner in which the trough is associated with the eaves as well as the construction of the trough; and

Fig. 3 is an enlarged fragmentary transverse sectional view of the cover and the means for maintaining the cover in spaced relation to the roof.

Referring more particularly to the drawings in which similar reference numerals designate like or corresponding parts throughout the different views, I provide a portion of a building 1 with a roof support 2′ on which in this instance is arranged a number of shingles 3′. It is to be understood that I am not to be limited to the exact formation of roofing shown, the shingles being merely shown to illustrate the application of my invention.

Associated with the eaves of the building between the roof support and the lowermost shingle is my improved eaves trough 2, the inner marginal edge of which is bent outwardly and slightly upwardly to provide a retaining flange 3, the latter being inserted between the roof support 2′ and the lowermost shingles 3′ and secured thereto when the shingle is secured. The trough proper is formed of any desirable metal and is semi-circular in cross section, the opposite or outer edge being rolled inwardly upon itself to provide a stop 4 for the water which flows from the roof. This arrangement is to overcome the old inconvenience of the water flowing from the roof and splashing over the sides of the trough. The side of the trough having the rolled edge is tapered as illustrated by the numeral 5 toward the rear closed end 6 of the trough. The bottom of the trough adjacent the opposite closed end 7 is provided with an opening in which is mounted an outlet pipe 8 for receiving the water and conveying it to a cistern, not shown, located in the ground where the water can be subsequently used in the building. This tapered arrangement of the trough prevents overflowing of the water deposited in the trough from the roof and permits of the water entering the outlet pipe. It is desirable, in practice, to taper the gutter one inch every ten feet.

In order to prevent the accumulation of leaves, snow, or other debris in the trough,

I have provided an improved closing means or cover 9, in this instance in the form of a plate having one longitudinal edge suitably secured to the upper edge of the stop 4 through the medium of hinges 10. This edge is preferably cut so that it tapers toward the edge of the roof in conformity with the tapering trough, the opposite edge of the cover being bent upon itself to provide a flange 11 which facilitates the raising of the cover without injuring the hands. The flanged end of the cover is arranged in spaced relation to the lower edge of the row of shingles 3, which is positioned upon the lowermost row of shingles, and carries suitable V-shaped legs 12 in spaced relation on the under surface thereof to maintain the cover in spaced relation to the lowermost shingles, or lower edge of the roofing, to permit of water passing thereunder as it flows from the roof to be later deposited in the trough. As is apparent in Fig. 2 of the drawings, it will be noted that the upper surface of the cover 9 and the upper surface of the row of shingles adjacent the lowermost row are in alinement, this arrangement causing snow to slide directly from the roof and over the cover onto the ground, thereby relieving the weight of snow on the trough and consequently increasing the longevity of the device.

In order to removably secure the cover to the shingles, I have provided the cover at uniformly spaced intervals adjacent the flanged end 11 thereof with a plurality of openings 13 through which pass suitable fastening devices, preferably screws 14, the threaded ends of which also engage the lowermost shingles for retaining the cover in spaced relation with the roof.

Although I have shown and described the preferred embodiment of my invention, I desire to be understood that I am not to be limited to the exact details shown, however, I desire that great stress be laid upon the peculiar coöperation between the gutter having a stop thereon as well as the cover associated with the stop and the roof for preventing the accumulation of snow, leaves, etc., in the trough.

From the above description taken in connection with the accompanying drawings, it can easily be seen that I have provided a device that is simple in construction, containing but a few simple parts that can be cheaply manufactured and assembled, and when assembled can be placed upon the market, and sold at a minimum cost.

It will be understood that the above description and accompanying drawings comprehend only the preferred embodiment of my invention and that various minor changes in detail of construction, proportion and arrangement of the parts may be made within the scope of the appended claim and without sacrificing any of the advantages of my invention.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent, is:—

In a device of the class described, the combination of an eave trough, means for securing one edge of said trough to a roof, a cover connected to the remaining edge of said trough and overlapping the roof, V-shaped legs fixedly mounted upon the under surface of said cover, said legs being adapted to bear upon a roof for holding the cover spaced from the roof, securing means passing through said cover for engaging the roof for ordinarily holding said cover and said legs being adapted to bite into the roof when considerable supporting strain is brought to bear upon said cover, whereby said legs will assist in holding said cover and relieve strain from said securing means.

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

CHARLES W. WICKS.

Witnesses:
M. O. Scott,
I. H. Fields.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."