H. G. ANDREAS.

EAVES TROUGH HANGER.

APPLICATION FILED MAY 24, 1915.

1,160,124. Patented Nov. 16, 1915.

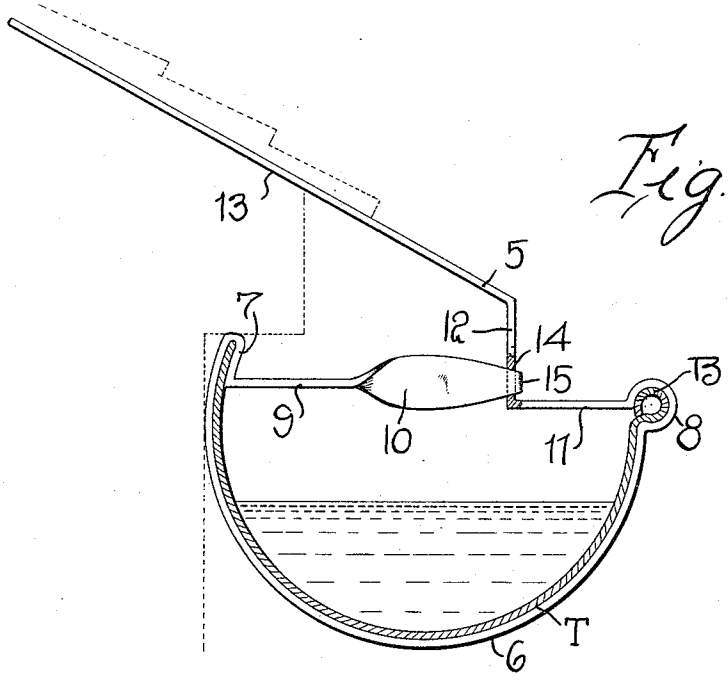


Fig. 1

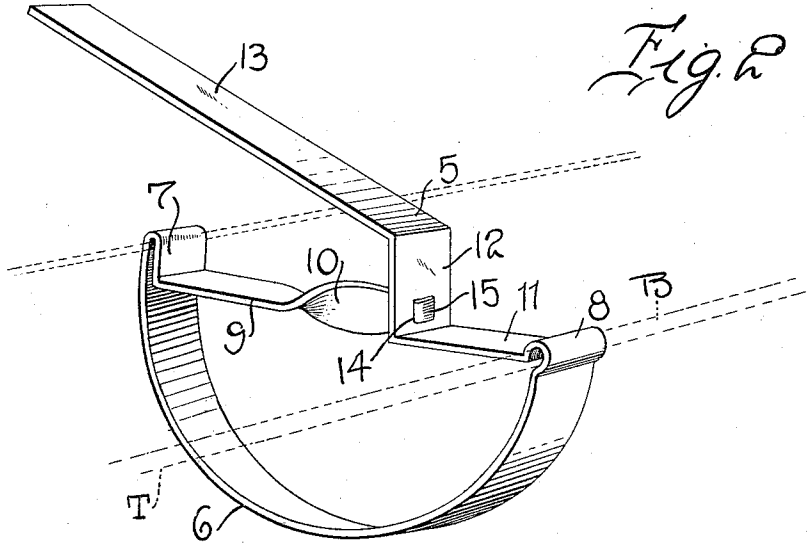


Fig. 2

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EAVES-TROUGH HANGER.

1,160,124. Specification of Letters Patent. Patented Nov. 16, 1915.

Application filed May 24, 1915. Serial No. 30,116.

To all whom it may concern:

Be it known that I, HARRY G. ANDREAS, a citizen of the United States, residing at Sterling, in the county of Whiteside and State of Illinois, have invented certain new and useful Improvements in Eaves-Trough Hangers, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to an improved eaves trough hanger and has for its primary object to provide a simple, durable and efficient device of this character which may be easily, quickly, and securely applied to the eaves trough or gutter.

It is another object of the invention to provide an eaves trough hanger which is constructed from a single metal bar having a portion bent or formed to embrace the eaves trough, said bar being provided with a vertical intermediate portion and a twisted end, the terminal of which is adapted to be passed through an opening in said vertical portion and clenched thereon.

With the above and other objects in view, my invention consists in the novel features of construction, combination, and arrangement of parts to be hereinafter more fully described, claimed, and illustrated in the accompanying drawing, in which,

Figure 1 is a side elevation of the device showing the same applied to an eaves trough; and Fig. 2 is a perspective view of the hanger.

Referring in detail to the drawing, 5 indicates generally the hanger bar which is of uniform width throughout its length and of requisite thickness to afford the necessary strength and rigidity for the proper support of the eaves trough, indicated at T. The hanger bar 5 is bent adjacent to one end to provide a substantially semi-circular portion 6 to embrace the eaves trough, and at one end of this semi-circular portion of the bar is returned upon itself as shown at 7, to provide a downwardly opening loop for the reception of the longitudinal edge of the trough lying next adjacent to the building wall beneath the overhanging eave of the roof. The other or outer longitudinal edge of the trough is provided with the usual bead, shown at B, and the hanger bar 5 at the other end of the curved portion 6 thereof is bent to form an inwardly opening sleeve 8 which receives this bead. From the reverse bend 7 in the bar, the same is extended inwardly from the wall of the trough, as at 9, and is then twisted, as shown at 10, to dispose the end portion of the bar in a vertical plane and increase the rigidity of such end portion.

From the bead receiving sleeve 8 in the hanger bar, the same is transversely extended inwardly over the trough, as at 11, and then bent at right angles and vertically disposed, as shown at 12. From this vertical portion of the bar, the other end portion thereof is obliquely extended, as at 13, for engagement upon the roof beneath the shingles thereof, said oblique end of the hanger bar being secured in any desired manner to the roof.

The vertical portion 12 of the hanger bar is provided with an opening, indicated at 14, therein, to receive the terminal 15 of the twisted end portion 10 of the hanger. It will be noted, from reference to Fig. 2, that this twisted end portion of the bar tapers longitudinally and the extremity thereof is relatively narrow. This extremity 15 of the bar, after being passed through the opening, is bent at right angles or clenched upon the vertical portion 12 of the hanger. When the end portion 10 of the hanger bar is forced inwardly to engage the extremity thereof through the opening 14, the curved section 6 of the bar is contracted and caused to clamp upon the wall of the eaves trough. After the extremity 15 has been clenched in the manner above stated, the end of the hanger is securely held against disconnection from the vertical portion 12 of the bar so that the trough will, at all times, be securely held in its proper position. The hanger may be easily and quickly applied to the trough by engaging the twisted end of the bar over the rear edge of the trough and then turning the bar thereon and springing the open sleeve 8 over the bead B on the outer edge of the trough.

From the foregoing description, taken in connection with the accompanying drawing, the construction, manner of use and several advantages of my invention will be fully and clearly understood. It will be seen that I have produced a very durable and serviceable eaves trough hanger which may be readily applied to the trough or removed therefrom, when necessary, and does not necessitate the employment of rivets,

screws, or other fastening means, or require any alteration in the usual trough construction.

The device may, of course, be made in various sizes and the hanger bar may be of any desired width. It will, therefore, be understood that I reserve the privilege of resorting to all such minor modifications in the several structural features of the device as may be fairly embodied within the spirit and scope of the invention as claimed.

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

As an improved article of manufacture, the herein described eaves trough hanger constructed from a single metal bar having its medial portion bent into substantially semi-circular form to embrace the eaves trough, said bar at the opposite ends of the semi-circular portion thereof being bent upon itself for clamping engagement with the opposite edges of the trough and then extended inwardly to provide horizontal arms disposed in parallel planes and terminating in spaced relation to each other, one extremity of the bar being twisted to dispose the same in a vertical plane with respect to one of the arms and extending longitudinally from said arm, the bar being vertically extended from the inner end of the other of said arms and provided with an opening to receive the terminal of the twisted end of the bar, said terminal being adapted to be clenched upon the vertically disposed portion of the bar.

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

HARRY G. ANDREAS.

Witnesses:
JOHN M. BUCKLEY,
PHILIP H. WARD.

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