Feb. 25, 1941. W. H. GRAY 2,233,049

EAVES TROUGH HANGER

Filed July 19, 1940

Fig. 1.

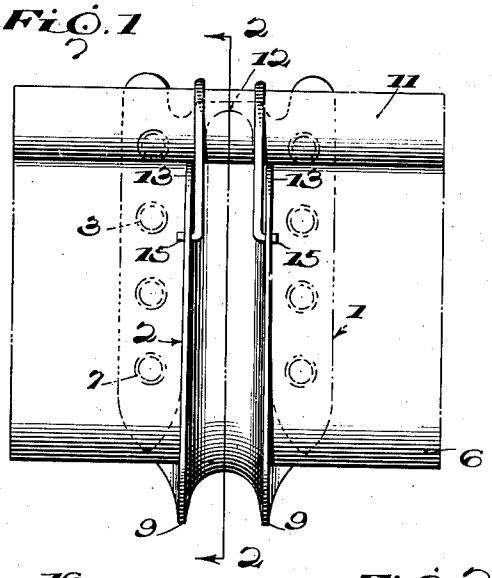


Fig. 4.

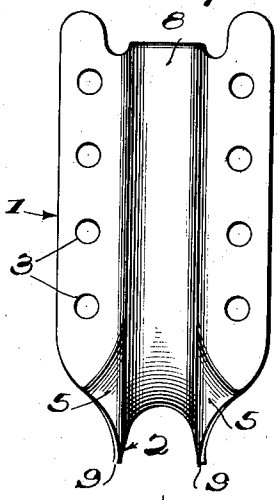


Fig. 2.

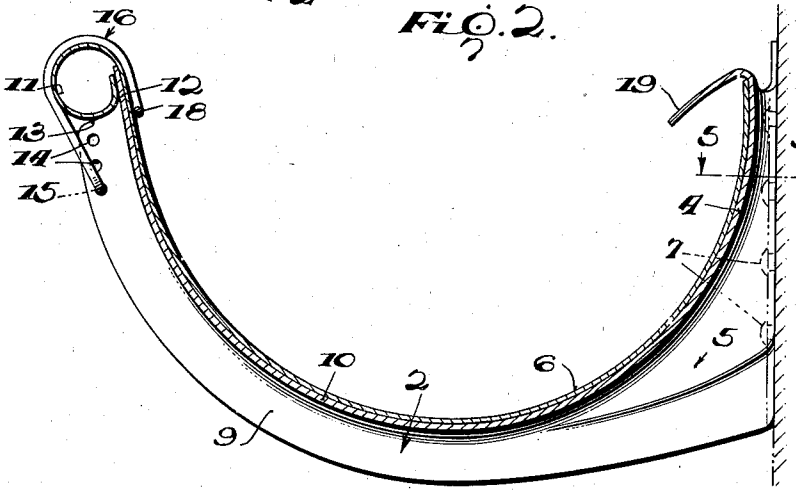


Fig. 6.

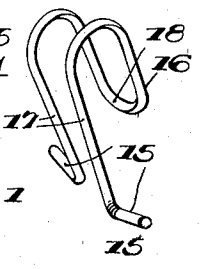


Fig. 5.

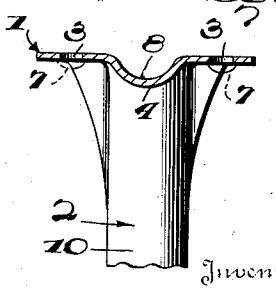
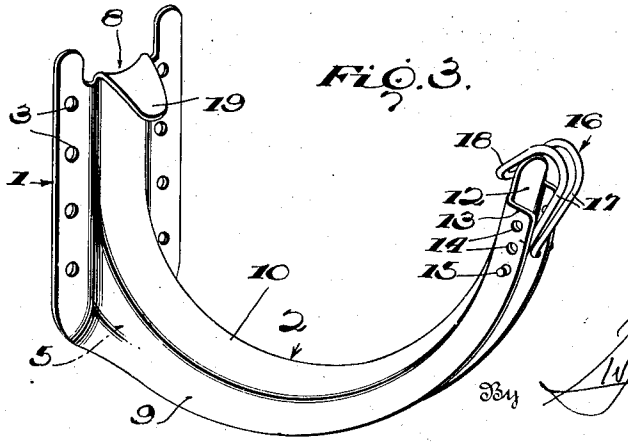


Fig. 3.



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EAVES TROUGH HANGER

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Application July 19, 1940, Serial No. 346,444

1 Claim. (Cl. 248—48.2)

The invention relates to an eaves trough hanger.

The object of the present invention is to improve the construction of eaves trough hangers and to provide a simple, practical and efficient eaves trough hanger of strong and durable construction adapted to be stamped or otherwise formed from a single piece of sheet material, and provided with means for spacing the inner side of an eaves trough from the heads of the hanger attaching fastening devices to prevent the fastening devices, should one or more of the same become loose, from coming in contact with the eaves trough and causing a displacement of the same or puncturing or otherwise injuriously affecting the eaves trough.

A further object of the invention is to provide an eaves trough hanger of this character equipped at the space afforded by offsetting the eaves trough from the attaching means with a vertical groove or channel forming a passage extending downwardly from the upper end of the attached portion of the hanger to the lower end thereof and forming a passage for water to prevent accumulation of water or moisture in rear of the hanger, and thereby contribute to the maintenance of the hanger in a dry condition.

With these and other objects in view, the invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawing and pointed out in the claim hereto appended, it being understood that various changes in the form, proportions and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawing:

Figure 1 is a front elevational view of a portion of an eaves trough supported in a hanger constructed in accordance with this invention.

Fig. 2 is an enlarged vertical longitudinal sectional view through the hanger, the trough being in section.

Fig. 3 is a perspective view of the hanger.

Fig. 4 is a rear end view of the hanger.

Fig. 5 is a sectional view on the line 5—5 of Fig. 2.

Fig. 6 is a perspective view of the clamp.

In the accompanying drawing in which is illustrated the preferred embodiment of the invention, the eaves trough hanger comprises in its construction a vertically disposed attaching plate 1 and a curved trough supporting arm 2 extending outwardly from and formed integral with the attaching plate. The attaching plate 1 and the arm 2 are stamped or otherwise formed from a single piece of sheet material, and the attaching plate is provided at opposite sides with vertical series of apertures 3 for the reception of nails, screws or other fastening devices, for securing the eaves trough hanger in position for use.

The supporting plate is provided at its central portion between the rows of apertures with an intermediate outwardly bowed vertically disposed portion 4 extending downwardly from the upper edge of the vertical plate and merging at its lower end into a downwardly extending recess 5. The outwardly bowed intermediate portion 4 of the base plate is curved transversely and it offsets the eaves trough 6 from the heads of fastening devices 7 which pass through the apertures 3 for attaching the eaves trough hanger to the woodwork beneath the eaves or other portion of a house or building to which the eaves trough is to be attached. The offsetting of the eaves trough by the outwardly bowed portion of the attaching plate from the side portions thereof provides an intervening space between the inner side of the eaves trough and the attached portion of the plate for the double purpose of preventing the heads of the screws from coming in contact with the eaves trough and for affording a space for the rear channel or passage 8 formed at the rear face of the plate by the said outwardly bowed intermediate portion 4.

The curved arm is provided with two spaced marginal depending flanges 9 extending downwardly from the intermediate trough receiving portion 10 which is preferably curved transversely to present a smooth bearing surface to the eaves trough 6. The depending marginal flanges are enlarged at their inner portions to conform to the configuration of the recess 5 in the lower portion of the rear face of the vertical plate. The rear ends of the marginal flanges are flared laterally and are merged into the side portions of the vertical plate.

The eaves trough is provided at its outer edge with a rolled bead 11 which is fitted over an outer upwardly extending lip 12 and against abutments 13 formed by cutting away the outer terminal portions of the marginal flanges of the trough supporting arm.

The outer portions of the marginal flanges adjacent the abutments 13 are provided with spaced perforations 14 to receive laterally extending pintles 15 of a hook clamp 16 which engages over the bead of the trough.

The hook clamp 16 is constructed of a single

piece of spring wire or other suitable material which is bent equidistant of its ends to form two arms 17 and a connecting bend 18. The arms 17 are bent into hook shape and the hook clamp is adapted to be readily sprung into engagement with the bead of the trough. The perforations 14 permit an adjustment of the hook clamp for enabling the same to be positioned properly for firmly engaging the bead of the eaves trough.

The edge of the inner portion or side of the eaves trough is engaged by a fixed lip 19 located at the upper end of the vertical plate formed integral with the intermediate outwardly bowed portion 4 of the plate.

The eaves trough hanger which is adapted to be easily stamped from a single piece of sheet metal, is adapted to be readily secured for position in use, and enables an eaves trough to be quickly applied in position without the necessity of any fastening devices piercing the eaves trough and without liability of the eaves trough slipping laterally. The eaves trough hanger is adapted to increase the durability and life of an eaves trough by permitting water to drain readily from the rear of the hanger so as to contribute to the maintenance of the parts in a dry condition. Also the offsetting of the eaves trough from the attached portion of the vertical plate provides the necessary space for the passage in rear of the plate and also for preventing the heads of fastening devices from coming in contact with the eaves trough should one or more of the same become loose.

What is claimed is:

An eaves trough hanger comprising a vertically arranged plate having a downwardly opening recess at the lower portion and provided with an upper outwardly bowed intermediate vertical portion forming a channel or passage at the rear face of the vertical plate extending downwardly from the upper edge thereof to the lower recess of the same, and an eaves trough supporting arm extending outwardly from and formed integral with the vertical plate and provided with depending marginal side flanges enlarged at their inner portions and laterally deflected and conforming to the configuration of the lower recess of the vertical plate, the trough supporting portion of the inner end of the arm merging into and forming a continuation of the outwardly bowed intermediate upper portion of the plate whereby an eaves trough will be spaced from fastening devices for securing the vertical plate in position so that in the event of one or more fastening devices becoming loose the heads thereof will not displace or injuriously affect the eaves trough.

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