No. 608,844. Patented Aug. 9, 1898.

F. P. DICK.

HANGER AND SCREEN ATTACHMENT FOR EAVES TROUGHS.

(Application filed Mar. 14, 1898.)

(No Model.)

Fig. 1.

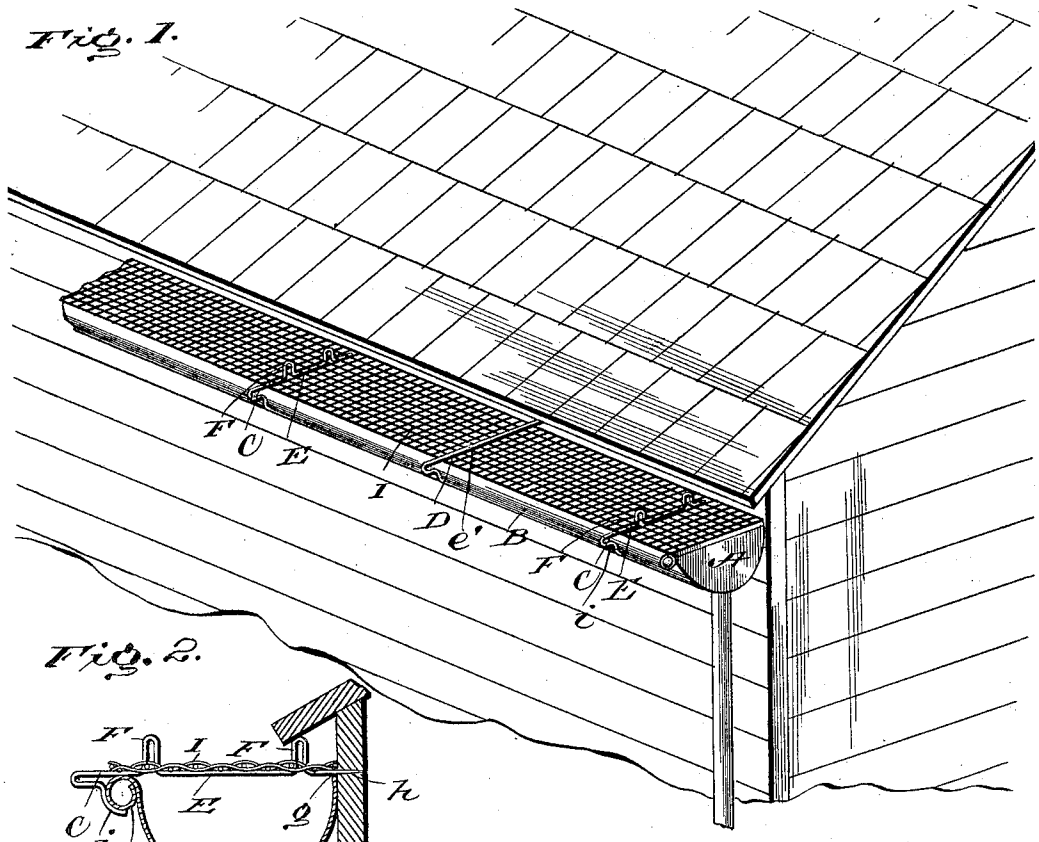


Fig. 2.

Fig. 4.

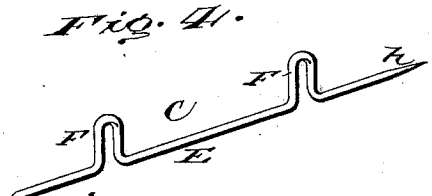


Fig. 3.

Fig. 5.

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UNITED STATES PATENT OFFICE.

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HANGER AND SCREEN ATTACHMENT FOR EAVES-TROUGHS.

SPECIFICATION forming part of Letters Patent No. 608,844, dated August 9, 1898.

Application filed March 14, 1898. Serial No. 673,836. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN P. DICK, a citizen of the United States, residing at Bucyrus, in the county of Crawford and State of Ohio, have invented certain new and useful Improvements in Hangers and Screen Attachments for Eaves-Troughs; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in hangers and screen attachments for eaves-troughs.

The objects of the invention are to provide a novel form of hanger to support the trough and a screen to prevent choking up of the trough by leaves and other debris and to so construct the hangers as to adapt the same to serve as fasteners for the screen, the construction and arrangement of the parts being such as to enable the trough to be readily and conveniently removed independently of the hangers and screen and also to enable the screen to be separately detached whenever desired.

To the accomplishment of these ends my invention consists in certain novel features of construction, combination, and arrangement of parts, as will be hereinafter more fully described, and particularly pointed out in the appended claim.

In the drawings hereto annexed and forming a part of this specification, Figure 1 is a perspective view of an eaves-trough embodying my invention. Fig. 2 is a transverse section of the same. Figs. 3 and 4 are detail perspective views of the hangers. Fig. 5 is a perspective view showing the loops of the main hangers employed as keepers to receive fastening-pins.

Referring now more particularly to the drawings, A represents a sheet-metal eaves-trough or gutter suspended in the usual manner along the base of a roof and having its outer edge bent to form a longitudinal bead or roll B. This trough is supported by the main hangers C and auxiliary hanger D. Each main hanger comprises in its construction a straight shank or bracket portion E, bent to form two upwardly-projecting loops F. The inner end of the hanger projects through an orifice *g* in the rear or inner side of the trough and is beveled off to form an entering point *h* or threaded to form a screw, as preferred, whereby it may be driven into the wall of the house, while the outer end thereof is bent to form a hook *i*, which extends under the bead or roll B on the outer or front side of the trough. The shank *e'* of the auxiliary hanger is straight throughout its length, being without the loops F; but it is similar in construction otherwise to the main hanger.

The screen I covers the mouth of the trough and rests directly upon the main hangers. The loops F of these hangers project up through the meshes of the screen and serve as stops to prevent the screen from moving longitudinally, while permitting it to have vertical movement, so that it may be readily and conveniently lifted off when it is desired to repair or rinse the trough to remove the accumulated dust and other particles of debris which are too small to be arrested by the screen. The purpose of the screen is to prevent leaves, sticks, and other trash from falling or being washed down in the trough and choking the same and the drain-pipe.

The auxiliary hanger C extends on an incline and has its inner end entered into the wall above the trough and screen and the hook at its outer end engaged with the bead B of the trough. This hanger serves as a stay for the outer end of the trough, whereon the greatest strain falls, and also prevents the screen from being lifted up and blown off by the wind.

From the above construction it will be seen that the trough may be readily and conveniently disconnected to permit its front end to sag down to gain access thereto for purposes of repair by simply springing the bead B out of engagement with the hanger-hooks without the necessity of removing the hooks or screen, also that the screen may be removed by simply detaching the auxiliary hanger whenever it becomes necessary to clean the trough.

In Fig. 5 of the drawings the loops F of the main hangers are shown employed as keepers to receive fastening-pins *j*, which may be used in addition to the auxiliary hangers to prevent the screen from lifting. These pins

are not necessary under ordinary circumstances, but may be employed as an additional security where the screen is exposed to the full sweep of the wind.

From the above description, taken in connection with the accompanying drawings, the construction and operation of my invention will be readily understood, and it will be seen that it provides an exceedingly simple, cheap, and effective device for the purpose stated.

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

In an eaves-trough, the combination with a trough provided at the outer edge thereof with a bead, of a screen closing the mouth of the trough, a pair of main hangers serving as supports on which the screen rests, said hangers being provided at their outer ends with hooks engaging the bead of the trough and each bent on opposite sides of its center to form loops projecting upwardly through the meshes of the screen, and an auxiliary hanger also provided at its outer end with a hook to engage the bead of the trough and arranged between said main hangers and bearing upon the upper surface of the screen, substantially as described.

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

FRANKLIN P. DICK.

Witnesses:

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