(No Model.)

D. GOTTSCHALK.

EAVES TROUGH HANGER.

No. 288,793. Patented Nov. 20, 1883.

Fig. 1.

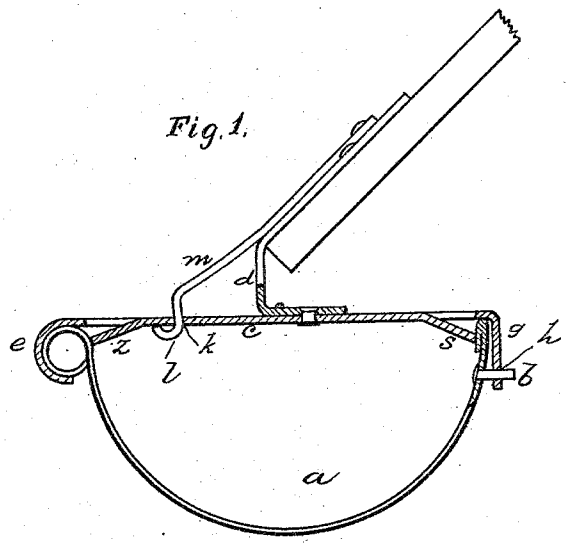
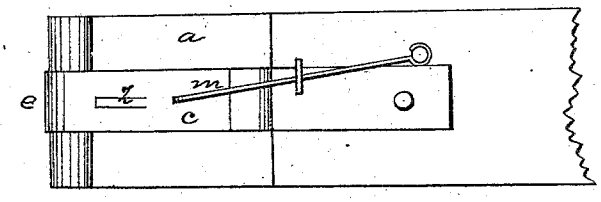


Fig. 2.



WITNESSES

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UNITED STATES PATENT OFFICE.

DANIEL GOTTSCHALK, OF DUNKIRK, NEW YORK.

EAVES-TROUGH HANGER.

SPECIFICATION forming part of Letters Patent No. 288,793, dated November 20, 1883.

Application filed February 24, 1883. (No model.)

To all whom it may concern:

Be it known that I, DANIEL GOTTSCHALK, a citizen of the United States, residing at Dunkirk, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Eaves-Trough Hangers; and I do 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a vertical sectional view of my device, and Fig. 2 is a top view of the same.

This invention has relation to eaves-trough hangers; and it consists in the construction and novel arrangement of devices, as will be hereinafter fully described, and particularly pointed out in the claims appended.

In the accompanying drawings, the letter *a* designates the eaves-trough, having at its back an outwardly-projecting pin or stud, *b*, which is usually connected by passing its projecting portion through a perforation in the rear wall of the trough and soldering the head of the stud firmly to the inside of said wall.

c indicates the cross-bar, having the roof-strap *d* extending upward from its middle portion, the front hook, *e*, and the rear downwardly-extending arm, *g*, in which is made a perforation, *h*, in proper position to engage the stud *b*.

In front of the strap *d* a perforation, *k*, is made in the cross-bar, to engage the downwardly-turned hook end *l* of the wire brace and tie *m*. This brace *m* is connected to the roof by a tack or screw engaging its upper end. Its lower end, *l*, is bent downward and somewhat backward to form a shoulder, and terminates in hook form, as shown. Engaging the perforation of the cross-bar, it is enabled by means of its hook form to serve as a tie to prevent the trough from turning downward, and by means of its shoulder portion to serve as a brace to prevent the trough from turning upward.

At the rear end of the level portion of the cross-bar is provided a latch-fastening, *s*, which is designed to engage the rear wall of the trough on the inside, and serves to hold it outward against the arm *g* of the cross-bar, preventing the stud *b* from becoming disengaged from the perforation *k*. This fastening *s* is usually formed by punching a rearwardly-extending tongue in the metal of the cross-bar, the tongue being bent a little downward for engagement. A similar fastening, *z*, is formed near the front hook of the cross-bar, to engage the front portion of the trough and hold it firmly. Disengagement of the trough is readily effected when these tongues are raised. Lugs may be sometimes employed instead of latch-fastenings; but the latter are preferred.

These devices are designed to enable the workman to connect the eaves-trough to the roof with great facility, and serve to hold the trough securely in position, preventing it from being turned upward or downward, and from shaking in its bearings.

A bridge-bar having an inwardly-projecting spur forced through the rear wall of the eaves-trough has been used prior to my invention, and I make no claim to said construction.

Having described this invention, what I claim, and desire to secure by Letters Patent, is—

1. The eaves-trough hanger having the wire brace-tie formed with a downwardly-turned hook end, *l*, engaging a perforation in the cross-bar of the hanger in front of the roof-strap, substantially as specified.

2. The combination, with a studded eaves-trough, of the perforated cross-bar having a latch-tongue near each end, the roof-strap, and the wire brace-tie, substantially as specified.

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

DANIEL GOTTSCHALK.

Witnesses:
FREDERICK FELLINGER,
WM. WELNER.