(No Model.)

H. J. HOEPFNER.

EAVES TROUGH HANGER.

No. 346,655. Patented Aug. 3, 1886.

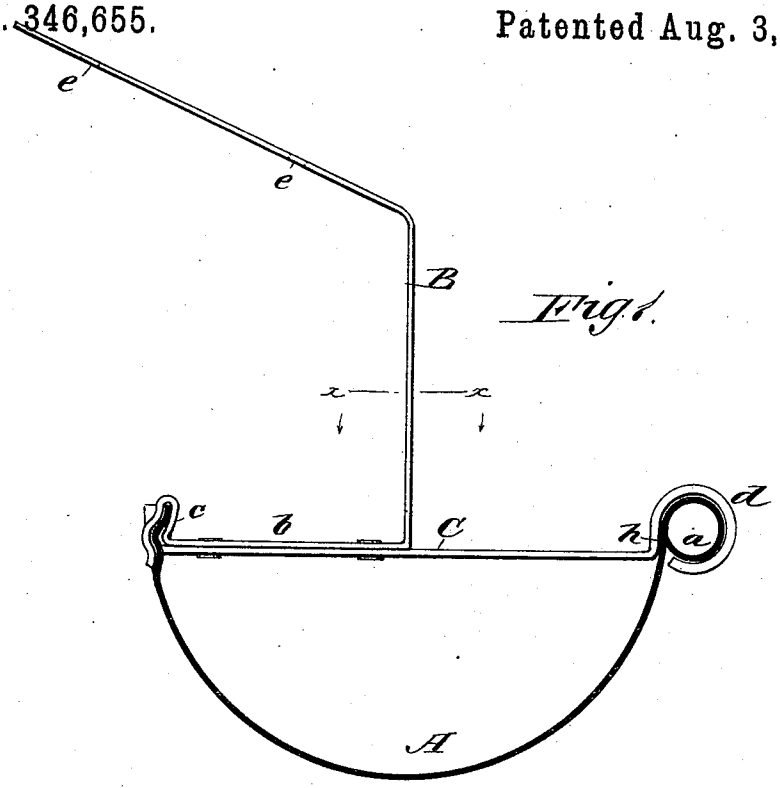
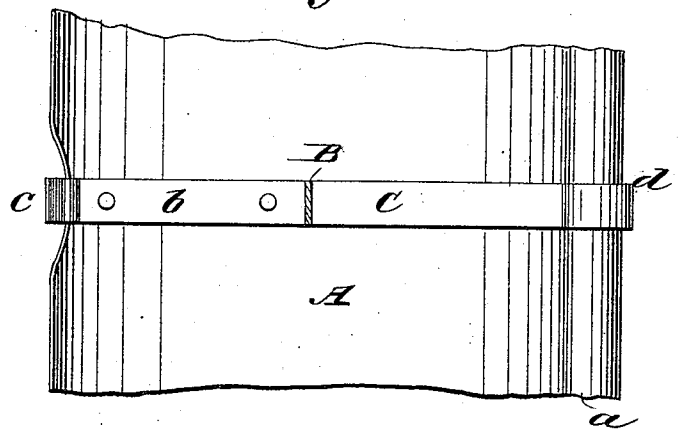


Fig. 1.

Fig. 2



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UNITED STATES PATENT OFFICE.

HENRY J. HOEPFNER, OF NELSONVILLE, OHIO, ASSIGNOR TO HIMSELF, MAC POSTON, AND GEORGE B. BLAZER, OF SAME PLACE.

EAVES-TROUGH HANGER.

SPECIFICATION forming part of Letters Patent No. 346,655, dated August 3, 1886.

Application filed December 3, 1885. Serial No. 184,598. (No model.)

To all whom it may concern:

Be it known that I, HENRY J. HOEPFNER, of Nelsonville, in the county of Athens and State of Ohio, have invented a new and Improved Eaves-Trough Hanger, of which the following is a full, clear, and exact description.

The object of my invention is to construct a simple, cheap, and durable eaves-trough hanger, by the use of which the usual wired edging of the trough may be dispensed with.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a side view of my improved hanger, and Fig. 2 is a plan view thereof, both views showing the hanger as applied to a section of the eaves-trough.

The letter A represents the eaves trough that is to be supported by my hanger. This trough, as will be seen from an inspection of the drawings, is a simple length of tin or other suitable metal, bent so as to be semicircular in cross-section, the outer edge, however, being bent over upon itself, so as to form a small circle like that shown at *a*, Fig. 1, the idea being to stiffen and strengthen the outer edge of the trough.

The hanger consists of a suspending-strip, B, by which the device is secured to the roof, and a cross-piece, C, which is riveted or otherwise firmly secured to the strip B, said strip B being bent at right angles near its lower end, as is clearly shown in Fig. 1.

The bent arm *b* of the suspending-strip B projects beyond the end of the cross-piece C; but just at the end of said cross-piece the arm *b* is turned up, and then down, so as to form the corrugated clamping-loop *c*.

The outer projecting end of the cross-piece C is turned up at right angles to the main portion of that piece, and then bent down and around to form a partial circle, as *d*, that is slightly larger in proportion than the one formed on the trough and shown at *a*. The formation of the circle *d* is commenced at a distance from the cross-piece C that is about equal to the height of the clamping-loop *c*, so that there is a short standard, *h*, projecting directly upward from said cross-piece.

The suspending-arm B is preferably made of soft pliable metal, so that it can be bent by hand at any desired point, in order that the operator can regulate the distance from the eaves to the trough, as the circumstances of the case require.

The operation of my improved hanger is as follows: The parts having been constructed as herein described, the hangers are placed over and upon the trough, so that the beaded edge of the trough will be within the circular portion of the cross-piece C, and the straight inner edge rest within the loop *c*. When the hanger and trough have been placed in the position just described, the loop *c* is pressed together by means of a pair of pinchers or other proper instrument, the circular portion *d* of the cross-piece C being also slightly pressed upon the beaded edge of the trough. The trough is now in condition to be secured to the roof, which is done by nailing it fast thereto, the nails being passed through holes punched in the arm B, as shown in dotted lines at *e e*, the operator being able to give a proper longitudinal inclination to the trough by bending over the arm B at unequal distances from the cross-piece C. Not only is my hanger durable and convenient, but it is so constructed that the cross-piece C is beneath the edges of the trough, so that any water falling thereon will run into instead of over the edge of the trough.

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

1. The herein-described eaves-trough hanger, consisting of a suspending-arm provided with a clamping loop and secured to a cross-piece formed with a circular clamp at its outer end, substantially as described.

2. The combination, with an eaves-trough hanger consisting of a suspending-arm provided with a clamping-loop and secured to a cross-piece formed with a circular clamp at its outer end, of a trough provided with an outer edge rolled to circular form, substantially as described.

3. The combination, with an eaves-trough hanger consisting of a suspending-arm, as B, provided with a clamping-loop, as *c*, and secured to a cross-piece, as C, formed with a standard, as *h*, and a circular clamp, as *d*, of a trough provided with a rounded outer edge, substantially as described.

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