M. H. COCHRAN.

EAVES-TROUGH HANGER.

No. 183,135. Patented Oct. 10, 1876.

Fig. 1.

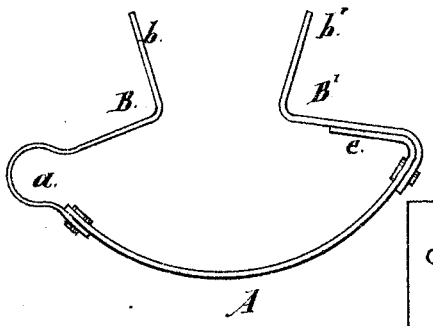

Fig. 2.

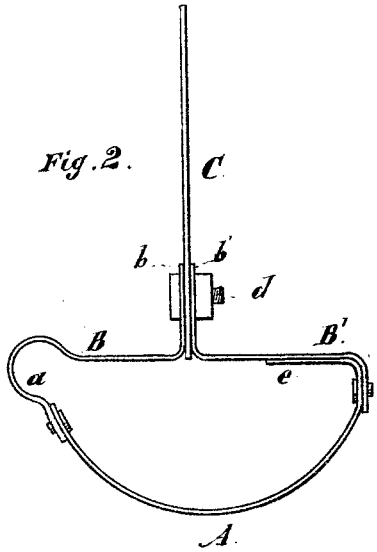

Fig 3.

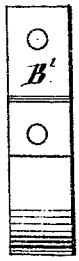

Fig. 4.

Witnesses

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UNITED STATES PATENT OFFICE.

MATTHEW H. COCHRAN, OF PAW PAW, ILLINOIS.

IMPROVEMENT IN EAVES-TROUGH HANGERS.

Specification forming part of Letters Patent No. **183,135**, dated October 10, 1876; application filed March 27, 1876.

To all whom it may concern:

Be it known that I, MATTHEW H. COCHRAN, of Paw Paw, Lee county, State of Illinois, have invented a new and useful Improvement in Eaves-Trough Hangers, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is an elevation, showing that portion of the device which receives the trough. Fig. 2 is a side view of the whole device, the several parts being in the position they occupy after they have been applied to the trough; Figs. 3 and 4, details.

My improvements consist in making the cross-bar which passes over the top of the trough in two parts, so constructed that the same can be opened at the center to permit the insertion of the trough; in securing the upturned ends of this cross-bar, by means of a bolt and nut, to the strap which is to be secured to the roof, and in providing either the roof-strap or said upturned ends with a slot, so that the position of the parts can be properly adjusted.

In the drawings, A represents a thin strip of tin or other sheet metal, which is to be passed beneath the trough. B B′ are two metallic strips, which should be somewhat heavier than A. These parts B B′ are secured to the opposite ends of the strip A by means of rivets. B is bent in the form shown in the drawings, the part *a* being designed to receive the bead of the trough. *b b′* are the upturned ends of B B′. C is a metal strap, provided, as shown, with a slot, *c*. *d* is a bolt, which passes through holes in *b b′*, and through the slot *c*, and C is held firmly between the two ends of B B′ by means of this bolt *d* and a nut; *e*, projecting end of the strap A, located on the under side of B′.

In use, the trough is inserted in place between the two parts *b b′*, and as A is thin and flexible, this opening between *b b′* can be enlarged as much as is necessary without injury to the strap A. The trough having been inserted in place, the two ends *b b′* are brought together with C between them, and the three parts *b* C *b′* are firmly held together by means of the bolt *d* and a nut. The slot *c* permits the adjustment of the trough up or down, as may be necessary, after C has been attached to the roof.

When constructed as described, the parts A B B′ having first been made of the proper size, the device can be brought closely in contact with the trough, and B B′ will serve as a brace, and the device can be very easily and rapidly applied, only requiring a hammer and a small wrench to tighten the nut.

Instead of the slot *c* in the strap C, the parts *b b′* might be each provided with a slot, which would answer the same purpose. The end *e* of A is to be turned down to hold the back part of the trough in position.

I am aware that hangers have been used heretofore provided with a cross-bar at the top, designed to serve as a brace; but I am not aware that such a cross-piece has ever been made in two parts; and when made as heretofore it has been found impossible to secure the cross-bar so that it and the strip A will tightly clasp the trough in such a manner that the trough will not be somewhat loose therein.

What I claim as new, and desire to secure by Letters Patent, is as follows:

An eaves-trough hanger consisting of the thin metal strip A, in combination with the two parts B B′, having upturned ends *b b′*, and the adjustable strap C and bolt *d*, all constructed and operating substantially as and for the purpose specified.

MATTHEW H. COCHRAN.

Witnesses:
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L. H. FLAGG.