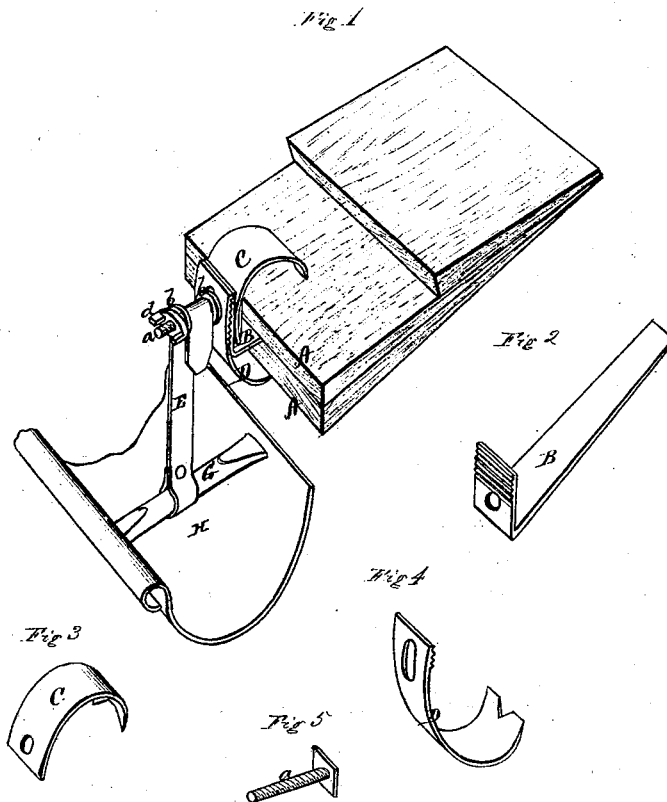


Henney & Kager,

Eaves Trough.

No. 108,906.

Patented Nov. 1, 1870.



Witnesses.

*Harry King
C. L. Davis*

Inventor.

*Michael Henney
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per
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Atty.*

United States Patent Office.

MICHAEL HENNEY AND WILLIAM B. RAGER, OF NORTH MANCHESTER,
INDIANA

Letters Patent No. 108,906, dated November 1, 1870; antedated October 22, 1870.

IMPROVEMENT IN EAVES-TROUGH FASTENERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that we, MICHAEL HENNEY and WILLIAM B. RAGER, of North Manchester, in the county of Wabash and in the State of Indiana, have invented certain new and useful Improvements in Eaves-Trough Fastener; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, making a part of this specification.

The nature of our invention consists in the construction and arrangement of an "eaves-trough fastener," whereby eaves-troughs can be attached to the roof or shingles without nailing, and at the same time with less trouble, and more durable than the fasteners most generally used.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view our fastener, and

Figures 2, 3, 4, and 5 are detached views of the same.

A A represent shingles of a roof, between which is inserted a bar, B, the outer end of which is bent upward, and on its outer side provided with ratchet-teeth, as seen in fig. 2.

The upper clasp, C, is curved, as seen in fig. 3, the end bearing on top of the shingles being toothed, and the outer end resting on the bar B, immediately inside of the bent-up end.

The lower clasp, D, is also curved, as shown in fig. 4, the end bearing on the under side being toothed,

and the upper end having ratchet-teeth on its inner side, to fit in the ratchet-teeth on the bar B.

A screw-bolt, *a*, having a large head, is passed through the clasps C D, and bent-up portion of the bar B, the head being on the inside, and the hole in the lower clasp D, through which the bolt passes, being elongated.

On the bolt *a* is placed a metal strap, E, attached at its lower end to a transverse rod, G, in the eaves-trough H.

On each side of the strap E, on the bolt *a*, is placed a washer, *b*, and then a set-nut, *d*, screwed on the bolt, which secures the strap and also fastens the clasps firmly to the roof.

The trough H can be raised and lowered at will by the strap E, and by loosening the set-nut *d* the clasps can be easily taken off.

Having thus fully described our invention,

What we claim as new, and desire to secure by Letters Patent, is—

1. The bent bar B, and clasps C D, constructed as described, substantially as and for the purposes herein set forth.

2. In combination with the bar B and clasps C D, the headed bolt *a*, washers *b b*, set-nut *d*, and strap E, all constructed and arranged substantially as and for the purposes herein set forth.

In testimony that we claim the foregoing, we have hereunto set our hands this 7th day of March, 1870.

MICHAEL HENNEY.
WM. B. RAGER.

Witnesses:

HORACE WINTON,
DAVID FRAME.