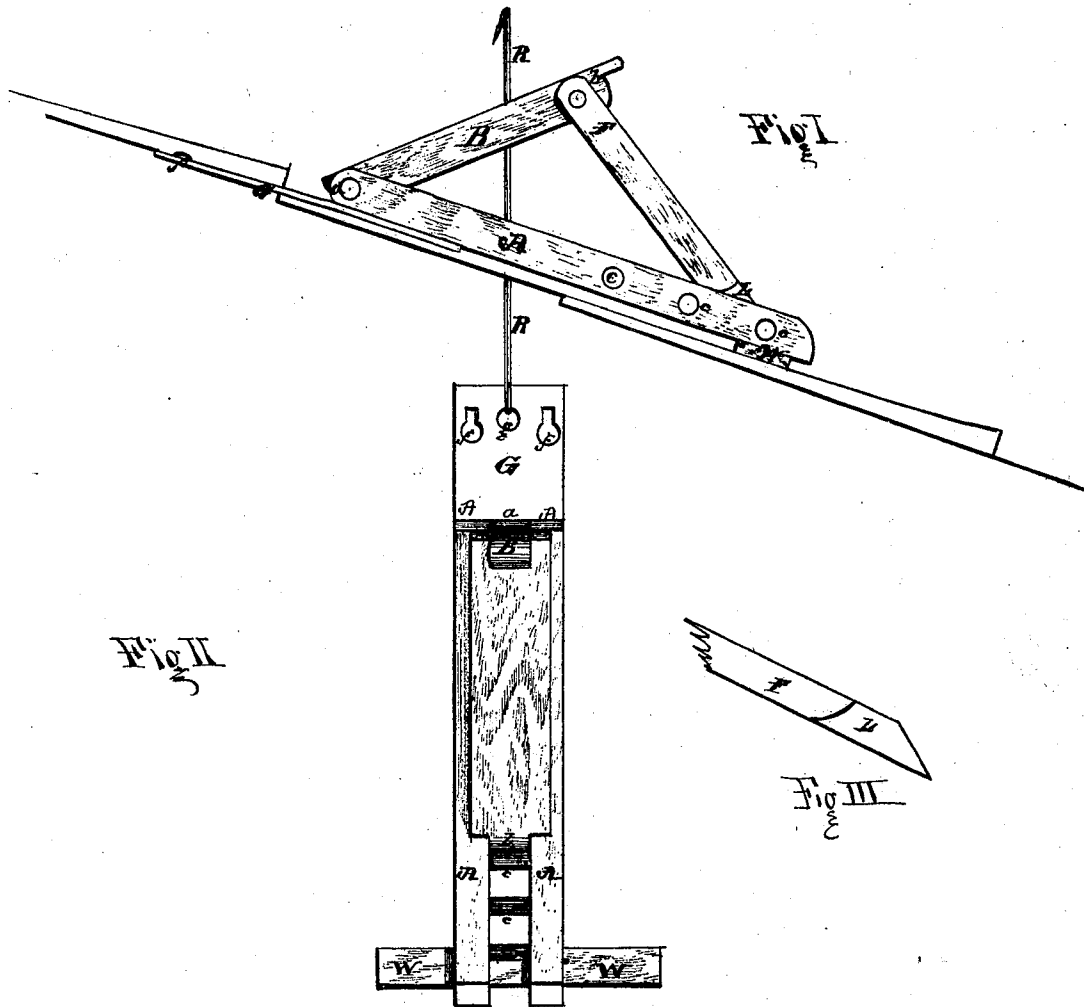


J. W. Cadwell,

Reaping Bracket.

No. 112,898.

Patented Mar. 21. 1871.



Inventor,

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JONATHAN W. CADWELL, OF SPRINGFIELD, MASSACHUSETTS.

Letters Patent No. 112,898, dated March 21, 1871.

IMPROVEMENT IN ROOFING-BRACKETS.

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

I, JONATHAN W. CADWELL, of Springfield, Hampden county, Commonwealth of Massachusetts, have invented a new Adjustable Roofing-Bracket, of which the following is a specification.

Nature and Objects of the Invention.

My invention relates to an adjustable bracket that may be used in shingling or slating roofs, or in performing any work or repairs that may be necessary on the roof of a house already completed, for the purpose of supporting the end of a scaffold, and is adjustable, to be used with equal effect upon a roof of any inclination; and

The object of my invention is to provide a light, portable bracket for carpenters and others, that can be at once adjusted in place to hold the scaffolding, thereby saving the time required in ordinary cases to construct the same, and during which time a number of hands are often idle waiting for its completion; and a bracket, also, that can be used upon either slate or shingle roofs and be removed without leaving any nail-holes for the admission of water.

Description of Accompanying Drawing.

Figure I shows a side view of one of my brackets in position upon a shingle roof.

Figure II shows a plan view, with the hook used to fasten it to a slate roof.

Figure III, a detail view of part of the tongue, showing the shoulder on same.

General Description.

The general shape of my bracket is triangular, and consists of the two bottom pieces A A, which form the base of the bracket, and are designed to rest directly upon the roof.

Between these two pieces, at one end, at *a*, is hinged the piece B that supports the scaffolding, while the pieces A A are connected at their other ends by pins *c c c*, &c., placed at any desirable distance apart.

The end *b* of the piece B is let into and hinged to the end of the piece F, forming the third side of the triangle.

This piece F has a stock removed from one end to form a tongue or pawl, L, with shoulders on each side, the pawl catching against one of the pins *c c c*, &c., and the shoulders coming against the top of the

pieces A A, so that, as shown in Fig. I, any inclination desired can be given to the piece B, supporting the scaffolding by changing the piece F from one pin *c* to another.

Attached to one end of the bracket, on its lower side, and projecting beyond it, is the sheet-metal plate G, provided at one end with the key-shaped holes *f*, and the circular one, *g*. These peculiarly-shaped holes in the plate G enable the bracket to be nailed to the roof on that part of the shingle that will be covered by the butts of the next succeeding layer of shingles, as the nails holding the bracket are driven through the smaller part of the holes *f*; and when it is desired to remove the bracket it is only necessary to slide it up the roof until the heads of the nails come opposite the larger part of the holes, when, by lifting the bracket at one end slightly, it can be drawn out from beneath the butt of the shingle, and a few taps of the hammer on the shingle above drives the nails out of the way into the roof.

I claim this as one great advantage in my bracket, as the ordinary way of securing brackets by nailing them to the outside of the roof, and leaving the nails in upon removing the bracket, or the holes but imperfectly plugged up, is liable to many objections.

Upon the other end of the bracket from which the plate G is fastened is attached a cross-piece, W, which is necessary when the hook R, fastened to the circular hole *g*, is used, as in the case of roofing with slate, because, as the bracket cannot be nailed to the roof, it might otherwise upset. This piece W is screwed to pieces A A, and can be removed, if desired, for shingling.

Claim.

What I claim as my invention is—

An adjustable roofing-bracket, formed of the pieces A A, with the pins *c c c*, &c., pieces B and F, plate G, having the holes *f* and *g*, and hook R, and cross-piece W, the parts being combined and arranged substantially in the manner and for the purpose shown and described.

JONATHAN W. CADWELL.

Witnesses:

SETH H. VOSE,
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