(No Model.)

P. W. RYAN.

SHINGLING BRACKET.

No. 285,164. Patented Sept. 18, 1883.

Fig 1

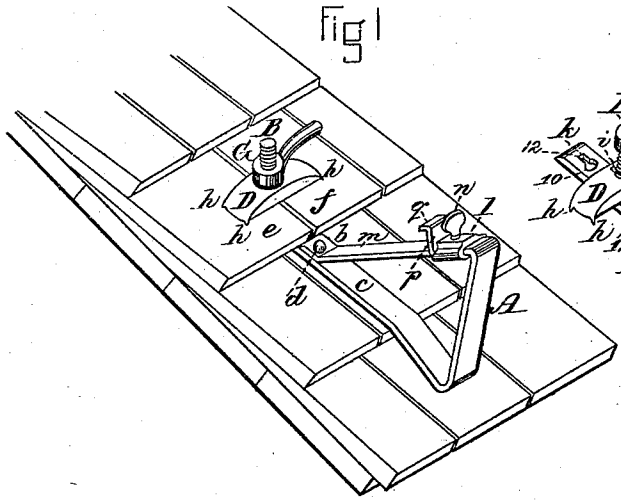


Fig 2

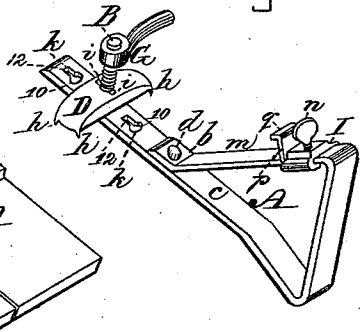


Fig 4

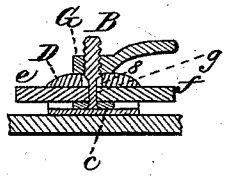


Fig 5

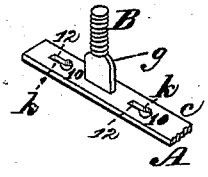


Fig 3

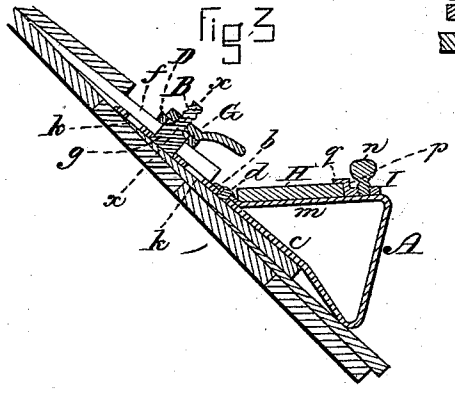
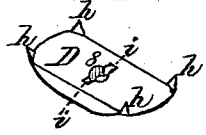


Fig 6



WITNESSES

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Chas. E. Griffin

INVENTOR

Patrick W. Ryan
per R. Teschemacher
Atty

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

PATRICK W. RYAN, OF MARLBOROUGH, MASSACHUSETTS.

SHINGLING-BRACKET.

SPECIFICATION forming part of Letters Patent No. 285,164, dated September 18, 1883.

Application filed August 11, 1883. (No model.)

To all whom it may concern:

Be it known that I, PATRICK W. RYAN, a citizen of the United States, residing at Marlborough, in the county of Middlesex and State of Massachusetts, have invented certain Improvements in Shingling-Brackets, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a perspective view of my improved shingling-bracket applied to the roof of a building. Fig. 2 is a view of the bracket detached. Fig. 3 is a longitudinal vertical section of the bracket applied to a roof. Fig. 4 is a transverse section on the line *x x* of Fig. 3; Figs. 5 and 6, details in perspective.

My invention has for its object to provide a secure and safe fastening for shingling-brackets, whereby they can be readily attached to the roof of a building in such manner as to prevent all liability of slipping; and my invention consists in the combination, with the base piece or portion of the bracket, the upper end of which is adapted to pass under the shingles, of a screw-bolt adapted to project up through the space between two contiguous shingles, and provided with a clamping-nut, which, when screwed down, will securely hold the bracket in place and effectually prevent any liability of its slipping or becoming detached from the shingles; and my invention also consists in certain details of construction, as hereinafter set forth and specifically claimed.

In the said drawings, A represents my improved bracket, which is preferably composed of a single piece or strip of wrought-iron bent into the form shown, one end, *b*, being secured to the base piece or portion *c* by a rivet at *d*. The upper end of the base-piece *c*, which lies next to the roof, and is inserted beneath the shingles, as seen in Figs. 1 and 3, is provided with a screw-bolt, B, which is securely fastened thereto, and projects outward through the space between two contiguous shingles, *e f*, the lower portion of the bolt B being flattened, as seen in Figs. 3, 4, and 5, to form a narrow neck, *g*, which can be entered at the lower end of the space between two contiguous shingles and forced up with the end of the base-piece *c* into the position seen in Figs. 1 and 3 without unduly spreading apart the shingles, the longest sides of the neck *g* being parallel with the sides of the base-piece *c*.

Over the bolt B is placed a holding-plate, D, which is provided on its under side, at the corners, with sharp spurs or projections *h*, which are pressed into the shingles by the action of a clamping-nut, G, which is screwed over the bolt B firmly down onto the plate D, the nut thus serving to clamp the end of the bracket firmly to the shingles in such manner that it cannot possibly become detached therefrom until the nut G is loosened, whereby a safe and secure fastening is afforded and all liability of accident from the slipping of the bracket avoided. The flat neck *g* of the bolt B extends up above the level of the contiguous shingles, and on opposite sides of the central aperture, 8, of the plate D are notches or grooves *i i*, which fit over the projecting ends of the neck *g*, and keep the plate D in a transverse position with respect to the piece *c*, as seen in Fig. 1, the spurs *h* entering the two contiguous shingles, *e f*, which are thus confined together, while the bracket is secured firmly to both shingles. The portion *c* of the bracket is provided with key-hole slots *k k*, which may be placed over the projecting heads of nails driven into a roof, thus enabling the brackets to be used in boarding a roof before it is shingled. The form of the slots *k* enables their lower enlarged portions, 10, to pass over the heads of the nails, the shanks of which beneath the heads fit into the narrow portions 12 of the slots when the bracket is drawn down, thus preventing it from becoming detached from the nails while in use. The horizontal portion *m* of the bracket which supports the staging-board H, Fig. 3, is provided with a slide, I, made adjustable thereon, and adapted to be secured in place by a clamping-screw, *n*. This slide is provided with a vertical portion, *p*, the upper end of which is turned over at a right angle, forming a hook or lip, *q*. The portion *p* of the slide, when the latter is properly adjusted, serves to hold the staging-board H close in to the roof, while the inwardly-projecting hook or lip *q* prevents the staging from being lifted up by the wind or other force if it should

become loose by shrinking away from the vertical portion *p*, which has been often found to occur where a slide having a vertical portion without the hook or lip *q* has been employed. I therefore lay no claim to the slide I, except when provided with a lip, *q*, adapted to project over the staging-board and hold the latter down in place, as required.

I am aware of the United States Patent of W. D. Walker, No. 214,330, dated April 15, 1879, in which the upper end of the bracket is adapted to be inserted beneath the shingles, and is provided with a staple projecting up through the space between two contiguous shingles, and secured in place by means of a pin or key passing through said staple. I therefore lay no claim to such device, or to any of the details of construction shown in said patent.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a shingling-bracket, the base-piece *c*, provided with a screw-bolt, B, secured thereto, and adapted to project up through the space between two contiguous shingles, in combination with a clamping-nut, G, applied to the bolt B, all constructed and arranged to operate substantially as and for the purpose set forth.

2. In a shingling-bracket, the combination, with the base-piece *c*, provided with a screw-bolt, B, adapted to project up through the space between two contiguous shingles, of the holding-plate D, provided on its under side with spurs or projections *h*, adapted to enter the shingles, and the clamping-nut G, all constructed to operate substantially in the manner and for the purpose described.

3. In a shingling-bracket, the base-piece *c*, adapted to be inserted beneath the shingles, and provided with a screw-bolt, B, having a flattened neck, *g*, at its lower end, in combination with the clamping-nut G, and the plate D, provided with an aperture, S, having grooves *i* on opposite sides thereof, to adapt it to fit over the neck *g* of the bolt B, substantially as and for the purpose set forth.

4. In a shingling-bracket, the combination, with the slide I, made adjustable upon the portion *m*, of the portion *p*, provided with an inwardly-projecting hook or lip, *q*, substantially as and for the purpose described.

5. In a shingling-bracket, the base-piece *c*, provided with slots *k k*, enlarged at their lower ends, substantially as and for the purpose set forth.

Witness my hand this 9th day of August, A. D. 1883.

PATRICK W. RYAN.

In presence of—
P. E. TESCHEMACHER,
W. J. CAMBRIDGE.