

UNITED STATES PATENT OFFICE.

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ROOFING-BRACKET.

1,241,335.

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To all whom it may concern:

Be it known that I, JOHN R. BOYD, a citizen of the United States, residing at Asheville, in the county of Buncombe and State of North Carolina, have invented a new and useful Roofing-Bracket, of which the following is a specification.

The device forming the subject matter of this application is adapted to be employed for holding a scaffold bar on a roof.

One object of the invention is to provide a novel form of interlocking element between the support which remains permanently assembled with the roof, and the hanger which carries the scaffold bar.

Another object of the invention is to improve the construction of the hanger, so that it will possess unusual strength.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the present invention appertains.

With the above and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed, can be made within the scope of what is claimed, without departing from the spirit of the invention.

In the accompanying drawing:—

Figure 1 shows the invention in top plan, applied to a portion of a roof;

Fig. 2 is a top plan showing a portion of a roof, the view depicting a method, slightly different from the one shown in Fig. 1, for mounting the structure on a roof;

Fig. 3 is a cross section taken approximately on the line 3—3 of Fig. 1;

Fig. 4 is a perspective view showing the hanger; and

Fig. 5 is a perspective view showing the support.

In carrying out the present invention there is provided a support denoted generally by the numeral 1, and preferably in the form of a strip of metal, which ordinarily is bendable. Adjacent its upper end, the support 1 is provided with holes 2 adapted to receive nails or the like, whereby the support may be secured to a roof board. In case the support 1 is used in connection with rigid shingles 3, as indicated in Fig. 1, then the lower end of the support 1 projects

downwardly below the lower edge 4 of one course of shingles. In case the support 1 is used with flexible shingles, indicated in Fig. 2 by the reference character 5, then the support 1 may be housed completely beneath the shingles, since the shingles may be turned up to give access to the lower end of the support 1, for a purpose which will be described hereinafter. In Fig. 2 of the drawings, the lower edges of the flexible shingles of the course beneath which the support 1 is housed, are indicated by the reference character 6. Adjacent its lower end, the support 1 is supplied with an oblong opening 7. At this point it is to be observed that the support 1 remains permanently connected with the roof after the shingles or the roofing of any other kind has been laid, it being thus possible, as will be manifest when the nature of the invention is better understood, to assemble a scaffold with the roof from time to time, after the roof has been completed and laid.

The invention comprises a hanger denoted generally by the reference character 8 and shown in detail in Fig. 4 of the drawings. The hanger 8 preferably is made of metal and includes a strip comprising parts 9 and 10 connected by a reduced neck 11 having depending arms 12 supplied with outwardly projecting fingers 14 located below the lower faces of the elements 9 and 10. The lower end of the part 10 is bent as shown at 15 to form an inclined brace 16 having a foot 17 disposed approximately at right angles to the part 10. The numeral 18 denotes a U-shaped stirrup, ordinarily made of metal. One arm of the stirrup 18 rests on the part 10 and is secured thereto by attaching elements 19. In the free arm of the stirrup 18 there is formed an opening 20. The foot 17 engages the base 21 of the stirrup 18 and is held thereto by a securing element 22. The brace 16 and its foot 17 serve to reinforce and sustain the base portion 21 of the stirrup.

In practical operation, the strip 9—10 is turned until it stands approximately at right angles to the support 1, as indicated in dotted lines in Fig. 1. The fingers 14 then are passed downwardly through the oblong opening 7 in the support 1. The strip 9—10 and parts carried thereby are then swung around until they are alined with the support 1, under which circumstances, the fingers 14 will engage beneath the support 1

upon opposite sides of the oblong opening 7, and prevent an accidental detachment of the hanger 8 from the support 1. The scaffold bar 23, which may be a two-by-four, is inserted into the stirrup 18, and a nail 24 may be driven through the opening 20, into the scaffold bar, to hold the same in place.

It is to be observed that in the present invention, the supports 1 remain permanently engaged with the roof. When it is desired to repair the roof, the hanger 8 is engaged with the support 1, in the manner hereinbefore set forth, and the scaffold bar 23 is then mounted in the stirrup 18 as hereinbefore described. Although it has been mentioned that the structure is adapted for use in repairing a roof, it is obvious that it is of equal utility in laying the roof.

Having thus described the invention, what is claimed is:—

1. In a device of the class described, a support having an elongated opening; means for securing the support to a roof; and a hanger including spaced parts connected by a reduced neck having depending arms provided with outstanding fingers, the fingers

being insertible through the opening in the support when the hanger stands approximately at right angles to the support, the fingers engaging beneath the support, on opposite sides of the opening, when the hanger is disposed in alinement with the support.

2. In a device of the class described, a support; means for securing the support to a roof; a strip the lower end of which is bent to form an inclined brace having an outstanding foot; a stirrup including a base engaged by the foot, a free arm, and an arm cooperating with the strip; means for securing the last specified arm of the stirrup to the strip to serve as a reinforcement for the strip; and detachably interengaging elements carried by the strip and the support.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN ROBERT BOYD.

Witnesses:

J. E. BROOKSHIRE,
J. B. CUM.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."