O. SCHORN.

ROOF BRACKET OR JACK.

APPLICATION FILED FEB. 19, 1912.

1,111,707. Patented Sept. 22, 1914.

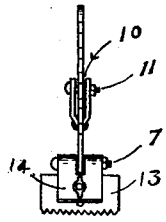


Fig 2

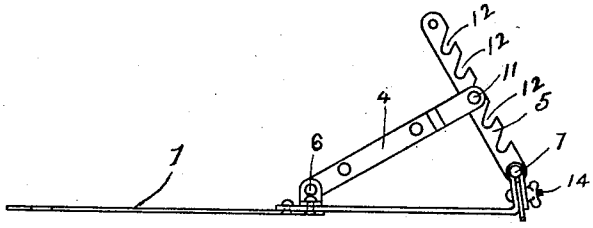


Fig 1

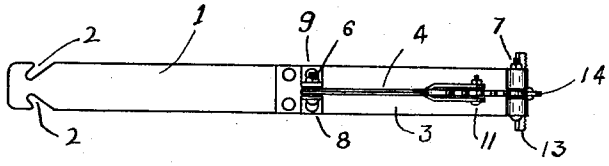


Fig 3

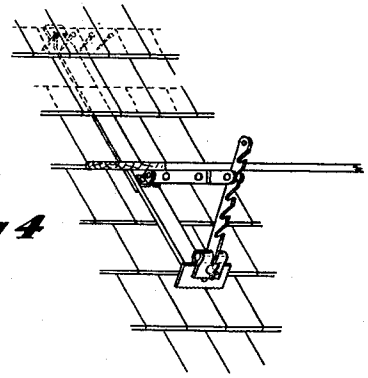


Fig 4

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ROOF BRACKET OR JACK.

1,111,707. Specification of Letters Patent. Patented Sept. 22, 1914.

Application filed February 19, 1912. Serial No. 678,594.

To all whom it may concern:

Be it known that I, OSCAR SCHORN, a citizen of the United States, residing at Cleveland, county of Cuyahoga, and State of Ohio, have invented a certain new and useful Improvement in Roof Brackets or Jacks, of which the following is a specification.

My invention relates to improvements in roof brackets or jacks.

The object of my invention is for the purpose of providing an adjustable support for planks, scaffolding, material or workmen while being on roofs.

A further object of my invention is to provide a device of the character mentioned, which may be readily and easily attached and detached on any slate or shingle roof without the necessity of using additional fastening.

With these objects in view, my invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a side elevation of the preferred form of my device, Fig. 2 is a front elevation thereof, Fig. 3 is a top plan, and Fig. 4 shows the preferred method of attaching same to roof.

Referring now to the drawings:

1 indicates a steel blade of a suitable length, width and thickness with suitable hooks provided at 2—2. Said hooked blade is for the purpose of inserting under slates or shingles and engaging at said hooks 2—2 with nail, with which said slates or shingles are fastened. 3 indicates a suitable base of metal securely fastened to said hooked blade 1 preferably as shown in drawing. Said base is for the purpose of laying on roof and forming a support for adjustable arms of bracket and means for fastening same. This bracket consists of two adjustable arms marked 4 and 5 in drawing which may be of metal or wood. The upper or carrying arm 4 which in drawing consists of two suitable pieces of metal, riveted together, is fastened to base 3 by means of pivotal bolt 6 and metal lugs 8 and 9 as shown in drawings. The free end of upper arm is spread and bent in a manner as to form a slot 10 of suitable size to receive free end of lower or supporting arm 5. The lower or supporting arm consists of a suitable piece of metal, and is fastened to base with pivotal bolt 7 preferably as shown in drawings. This lower or supporting arm 5 has a suitable number of holes or notches cut preferably as shown in Fig. 1. Notches 12—12—12 are for the purpose of engaging bolt or rivet 11 in upper arm 4 and holding said arm 4 at any angle required by pitch of roof. The same may be also accomplished by inserting a bolt or pin in holes, if such are used in place of notches. The supporting arm 5 being sufficiently long above the notches to extend over carrying arm 4, prevents the plank from sliding off of the bracket. Said arms are designed to be disengaged at the free ends, and to fold compactly: supporting arm 5 along base 3 and carrying arm 4 along hooked blade 1.

Base 3 is bent upwardly at the lower end to a suitable angle, then doubled back over pivotal bolt 7, that which holds supporting arm 5. This forms a strong socket into which the elongated toothed blade 13 is fitted. Said blade 13 is securely fastened at right angles to base 3 by means of a bolt with winged nut 14 substantially as shown in drawing. Said blade 13 being fastened in this manner to base 3 with several inches of blade on either side of said base, prevents all lateral movement, or side strain of the bracket when in use. Said toothed blade 13 is also for the purpose of gripping roof when the bracket is hooked on shingle roofs. When hooked on slate roofs said toothed blade may be used for cutting a small groove into slates, into which said blade will fit, thereby giving additional security.

Fig. 4 shows a section of roof and the preferred manner of attaching bracket to same. It also shows arms of bracket adjusted to a horizontal position for the purpose of supporting planks, scaffolding, material or workmen which may be placed upon same.

In operation the bracket is secured to roofs in the following manner: By inserting the hooked blade 1 under the slates or shingles as far as desirable, then moving same to right or left until nail holding said slates or shingles is located: Then by drawing the edge of said hooked blade along nail said hooked blade can be easily hooked to said nail at 2. The said nail can be tested by giving a strong downward pull on bracket. By working the toothed edge of blade 13 from side to side a groove is quickly cut, into which said blade 13 will fit. Said blade 13 in conjunction with the hooked blade 1, hooked to nail, will hold bracket securely on

roof. To disengage bracket (after load has been removed) lift lower end of bracket out of groove, and unhook by moving bracket upward and releasing said hooked blade from nail. It is of course understood that two of these brackets are to be used to sustain planks.

I am aware that prior to my invention adjustable roof brackets having nail strips with notches for nailing to roofs, while being laid, have been made. I therefore do not claim such a combination broadly, but

I claim:

1. A roof bracket or jack comprising a suitable base of heavy band iron or steel having its lower end doubled back over a pivotal bolt the double part being bent upwardly to an acute angle to said base, a steel blade inserted between said double part and clamped securely to said base by means of a bolt with winged nut passing through holes provided in said double part and center of steel blade, suitable teeth cut into lower edge of said steel blade for the purpose of gripping roof and for cutting a small groove in slate or shingles, into which said steel blade will fit and prevent said base from sliding downward, said steel blade to be of sufficient size to extend several inches on each side of base and thereby prevent all lateral movement and side play of said base substantially as described.

2. A roof bracket or jack comprising a base of heavy band iron or steel having its lower end doubled back and bent upwardly to an acute angle to said base, a transverse slot cut through the eye formed by said double part, a steel arm hinged into the said slot by means of a pivotal bolt passing through eye of double part and a hole in lower end of steel arm, a series of upwardly opening notches cut into outside edge of said steel arm, another arm hinged at the upper end of said base and consisting of two metal strips riveted together for about two-thirds of their length, and then spread apart to form a U shaped slot the open end of which is closed by a bolt or rivet, said slot being of sufficient width to admit free end of lower arm and thereby forming a bracket of great strength which can be quickly adjusted to pitch of roof by means of the notches cut into lower arm and engaging the bolt or rivet closing free end of upper arm, substantially as described.

3. In a roof bracket or jack the combination of a suitable base of heavy band iron or steel having its lower end doubled back over a pivotal bolt the said double part being bent upwardly to an acute angle to the base, thereby providing a convenient socket into which a toothed saw blade can be clamped as described, and also forming a suitable support to which the lower arm of adjustable bracket can be hinged substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

OSCAR SCHORN.

Witnesses:
KATHRYN SILBERLING,
JOHN P. WEIGEL.

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