May 26, 1959 C. F. McQUIN 2,888,225

COMBINATION ROOF AND SCAFFOLD BRACKET

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Fig. 1.

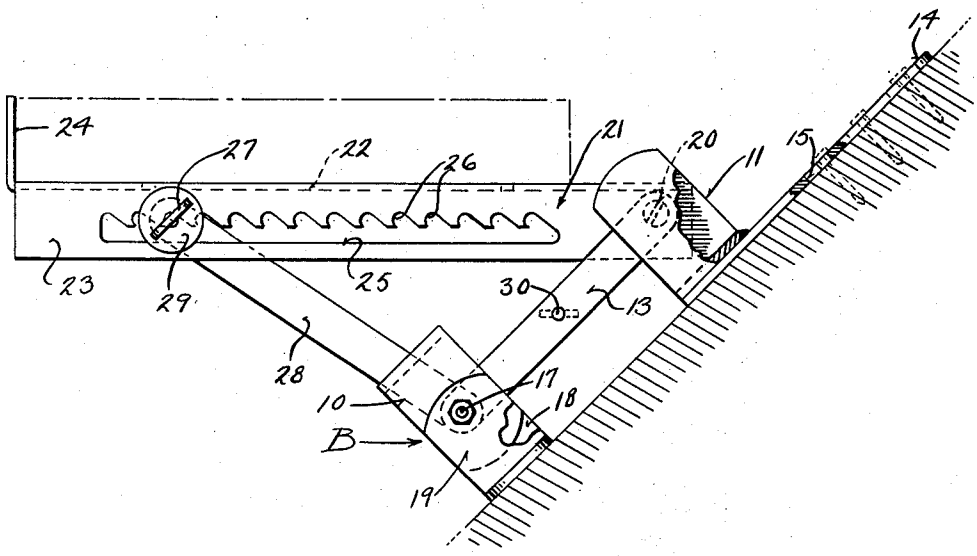
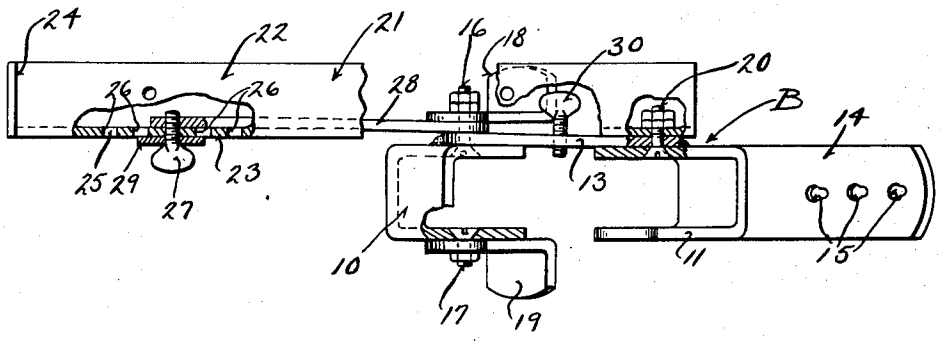


Fig. 2.



INVENTOR
CLARENCE F. McQUIN

BY Young & Wright

ATTORNEYS

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Fig. 3.

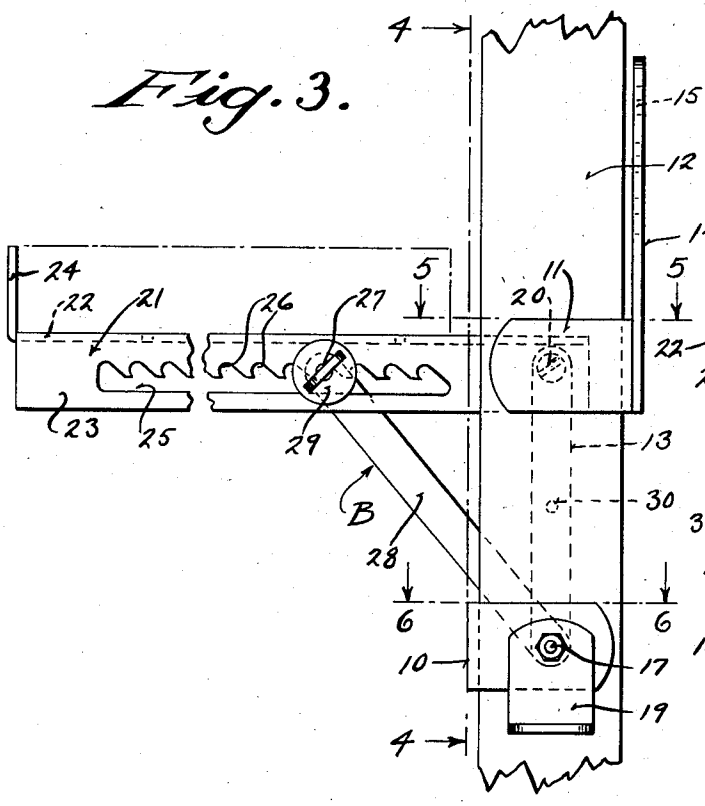


Fig. 4.

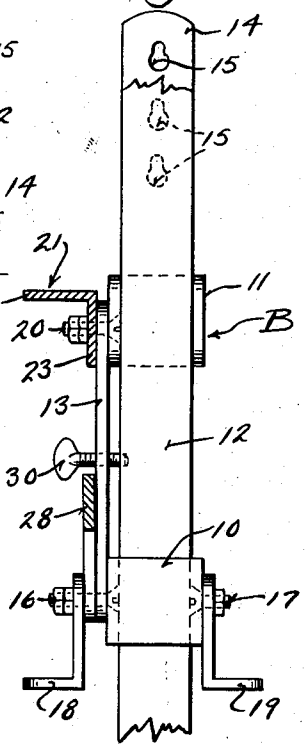


Fig. 5.

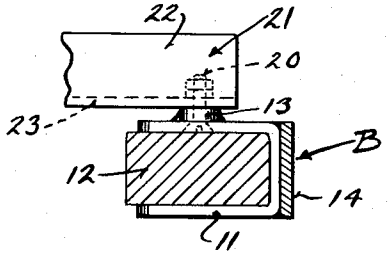
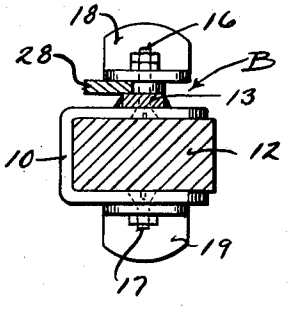


Fig. 6.



INVENTOR
CLARENCE F. McQUIN

BY Young & Wright

ATTORNEYS

United States Patent Office

2,888,225

Patented May 26, 1959

2,888,225

COMBINATION ROOF AND SCAFFOLD BRACKET

Clarence F. McQuin, Milwaukee, Wis., assignor to Earl J. Cowell, Milwaukee, Wis.

Application November 3, 1954, Serial No. 466,591

1 Claim. (Cl. 248—237)

This invention appertains to roof and scaffold brackets and more particularly to a novel bracket for supporting a working platform, which can be quickly adjusted and attached to roofs of various pitches.

One of the primary objects of my invention is to provide a roof bracket embodying a supporting arm for receiving and holding a board or work platform in a horizontal plane with novel roof engaging feet and means for adjusting the supporting arm on the feet to the horizontal position irrespective of the angle or pitch of the roof.

Another salient object of my invention is the provision of novel stirrups or clamps associated with the feet for engaging the uprights of a scaffold or the rails of a ladder at any desired point for holding the bracket securely in place and the supporting platform in a desired position.

A further important object of my invention is the provision of a bracket of the above character, which will be durable and efficient in use, one that will be simple and easy to manufacture and one which can be placed upon the market at a reasonable cost.

With these and other objects in view, the invention consists in the novel construction, arrangement and formation of parts, as will be hereinafter more specifically described and claimed, and illustrated in the accompanying drawings, in which drawings,

Figure 1 is a side elevational view of one of my brackets attached to a roof, parts of the view being shown broken away and in section;

Figure 2 is a top plan view of the bracket with parts thereof broken away and in section to illustrate structural detail;

Figure 3 is a view similar to Figure 1; but showing the bracket in use on the upright of a scaffold;

Figure 4 is a vertical sectional view taken on the line 4—4 of Figure 3, looking in the direction of the arrows;

Figure 5 is a detail horizontal sectional view taken on the line 5—5 of Figure 3, looking in the direction of the arrows and illustrating the upper stirrup or clamp, and

Figure 6 is a detail horizontal sectional view taken on the line 6—6 of Figure 3, looking in the direction of the arrows and illustrating the lower stirrup or clamp.

Referring to the drawings in detail, wherein similar reference characters designate corresponding parts throughout the several views, the letter B generally indicates my improved bracket and the same embodies a lower U-shaped clamp or stirrup **10** and a similar upper U-shaped clamp or stirrup **11**. The clamps extend in opposite directions so that the same will embrace the opposite sides of an upright **12** or the like of a scaffold or the rail of a ladder (see Figs. 3 to 6, inclusive). The upper and lower clamps are connected together by a strap **13** and this strap maintains the stirrups or clamps **10** and **11** in a desired spaced relation. Rigidly secured to the bight portion of the upper clamp **11**, such as by welding or the like, is an elongated face plate **14** having spaced openings **15** therein for a purpose which will later appear. The opposite sides of the lower clamp or stirrup **10** have pivotally secured thereto by means of pivot bolts **16** and **17** angle shaped roof engaging feet **18** and **19**, the purpose of which will hereinafter more fully appear. The pivot bolt **16** is utilized to connect the lower end of the strap **13** with the lower stirrup or clamp **10** and this bolt is also employed for another purpose, as will now be described.

Pivotally mounted upon a pivot bolt **20** carried by one arm of the upper clamp **11** is a main supporting arm **21**, and this arm **21** can be connected to the clamp **11** by the same bolt employed for securing the upper end of the strap **13** to said clamp. The arm **21** constitutes a support for a board or platform and is preferably constructed from angle iron to provide a horizontally disposed flange **22** and a depending vertically disposed flange **23**. The outer end of the flange **22** is bent up to provide a right angularly extending stop **24** for the board or platform placed upon the supporting arm. The vertically extending flange **23** is provided with a longitudinally extending slot **25** and the upper edge of this slot is provided with a series of equidistantly spaced holding teeth **26**. Slidably mounted within the slot is the shank of a winged screw **27** and this screw is threaded into the upper end of a supporting link **28**. The lower end of the link is rockably mounted upon the bolt **16** heretofore mentioned. The link **28** engages one side of the flange **23** and the other side of the flange is engaged by a clamp washer **29** through which the shank of the screw **27** extends. The screw **27** constitutes a latch and can be slid along the slot **25** to any desired position and when this position is reached the screw is placed in engagement with a desired tooth **26**. At this time, the screw **27** can be adjusted so as to firmly bind the link **28** and the washer **29** against the flange **23** of the arm **21** to hold the same in a desired adjusted position.

My bracket is particularly useful in supporting platforms and the like on roofs of different pitches and in Figure 1, I have shown the bracket in place on a roof. As clearly shown in this figure, the feet **18** and **19** are placed against the roof as is the face plate **14** and nails are driven into the roof through the openings **15** for holding the bracket against sliding movement on the roof. The supporting arm **21** is now swung to its horizontal position on its bolt **20** and the latch link **28** is utilized to support the arm **21** in its correct horizontal position. Due to the mounting of the feet **18** and **19** and the arm **21**, the bracket can be readily associated with roofs of different pitches and the arm **21** can instantly be adjusted to the horizontal position.

When the bracket is utilized on the side rail of a ladder or on the upright **12** of a scaffold, the stirrups **10** and **11** are placed around the opposite sides of the upright or rail as heretofore intimated, and as best shown in Figures 3 to 6. When the stirrups are placed at the desired point on an upright, the bracket is held against slipping by the use of a winged screw **30** threaded into the strap **13** and this winged screw can be adjusted on the strap against the upright or ladder rail, as the case may be. If desired, nails or screws can also be placed through the openings **15** into the upright or rail. Obviously, the feet **18** and **19** do not come into play when the bracket is used on a scaffold or ladder. The arm **21** is swung on its bolt **20** and is held in its correct position by the latch link **28**.

Various changes in details may be made without departing from the spirit or the scope of this invention, but what I claim as new is:

A bracket comprising a pair of stirrups, a strap connecting said stirrups together in spaced relation to form a base, said strap being pivoted at each end to said

stirrups, an upwardly extending flat face plate carried by one stirrup adapted to engage and lie flat against a roof, pivoted feet carried by the opposite sides of the other stirrup, said feet adapted to be adjusted to lie in the same plane as said face plate and to engage a roof at a point spaced from said face plate, a platform supporting arm pivotally secured to the stirrup carrying the face plate and extending rearwardly therefrom, and a latch and supporting link pivotally carried by the stirrup having the feet adjustably engaging the arm at a point spaced from the stirrup carrying the face plate for holding said arm in an operative platform supporting position.

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