

Sept. 12, 1933.

W. T. MacALPINE

1,926,207

SAFETY GUTTER BRACKET FOR ROOFERS

Filed Dec. 5, 1931

2 Sheets-Sheet 1

Fig. 1.

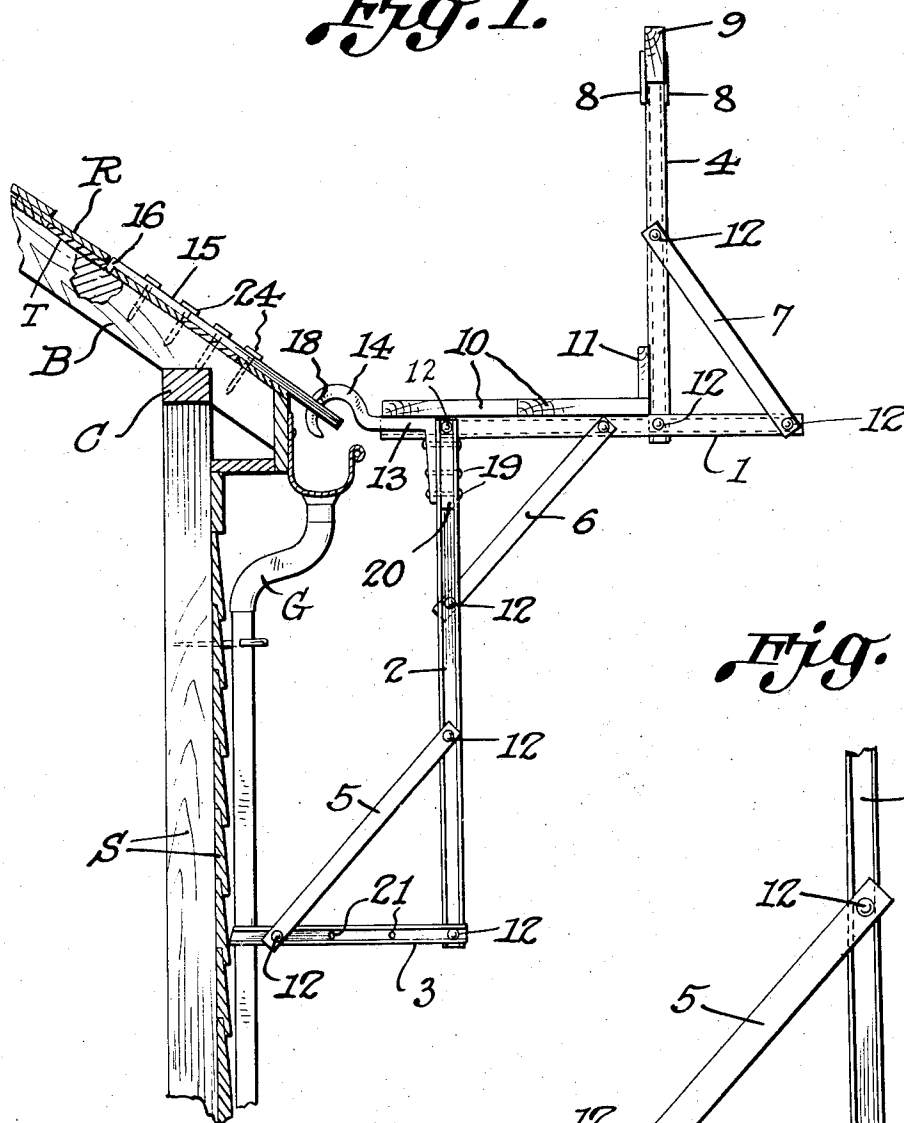
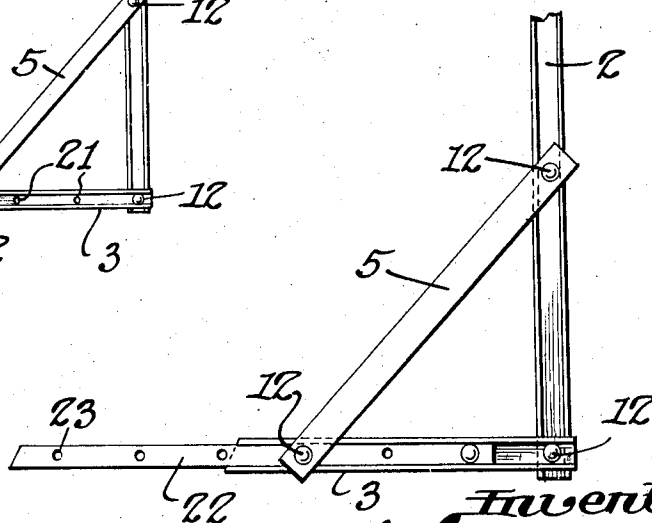


Fig. 7.



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2 Sheets-Sheet 2

Fig. 2.

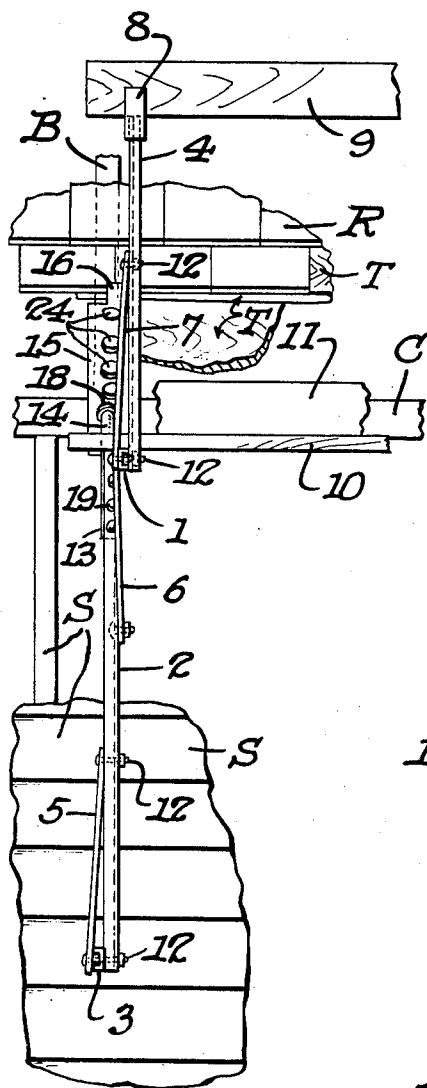


Fig. 3.

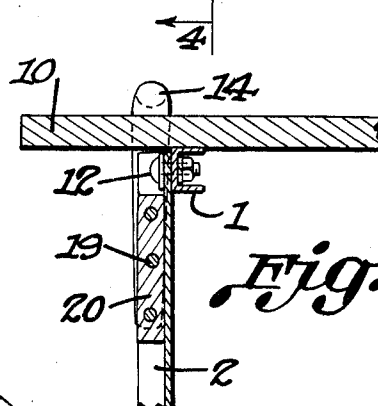
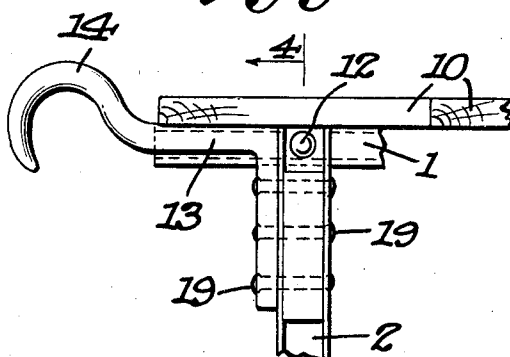


Fig. 4.

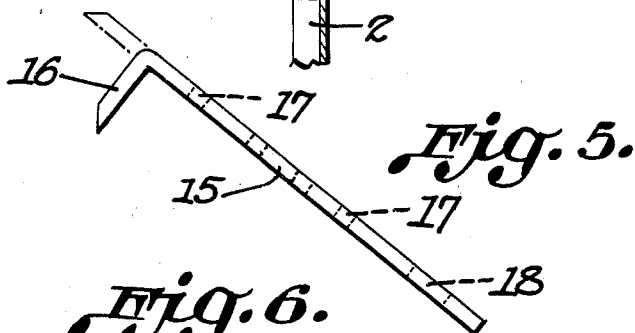
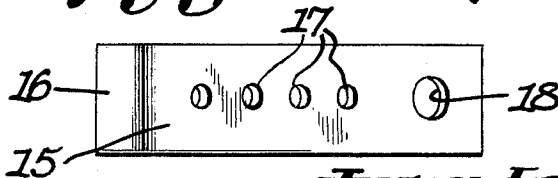


Fig. 6.



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UNITED STATES PATENT OFFICE

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SAFETY GUTTER BRACKET FOR ROOFERS

William T. MacAlpine, Wakefield, Mass.

Application December 5, 1931. Serial No. 579,318

3 Claims. (Cl. 304—15)

The object of my invention is to provide a much safer bracket than the old type brackets which were made to hang in the gutter and which obviously do not provide a safe anchoring means for a stage for anyone to work on. It is an object of my invention to obviate the necessity for building a staging from the ground up to the eaves of the roof. It is also an object of my invention to provide an anchoring plate which may remain permanently attached to the roof and to which the gutter bracket may be attached whenever desired for the purpose of laying slate, asbestos, asphalt, shingles, tile or copper on the roof. I attain the objects of my invention by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section through a building showing my bracket in side elevation;

Fig. 2 is an edge elevation of my bracket mechanism;

Fig. 3 is an enlarged view of the bracket hook and associated mechanism;

Fig. 4 is a section on line 4—4 of Fig. 3 at right angles thereto;

Fig. 5 is a detail side elevation of the anchoring plate 15;

Fig. 6 is a top plan view of same; and

Fig. 7 is a detail side elevation showing an extension 22 of member 3.

Like numerals designate like parts in each of the several views.

Referring to the accompanying drawings and especially Fig. 1, there is illustrated a section of a building in which the letter S designates the side wall consisting of studding and laths, provided with a suitable horizontal beam or cap member C on which are supported the rafters B which are covered with the roofing or shingles R. I provide an upper horizontal bracket member 1, a vertical bracket member 2, a lower horizontal bracket member 3, and an upper vertical bracket member 4. I provide a suitable brace 5 riveted or bolted to bracket members 2 and 3 to secure them in right angular positions to each other, a similar brace 6 securing bracket members 2 and 1 in right angular positions to each other, and a similar brace 7 securing bracket members 1 and 4 in right angular positions to each other, as shown in Fig. 1 of the drawings.

I provide suitable strips or plates 8 on the upper end of bracket member 4 to secure a suitable hand rail 9 to this bracket member. I also provide suitable planks 10 mounted on the upper horizontal bracket member 1 to provide a stage floor and a vertically disposed toe board 11 to prevent articles from being pushed off over the edge of the floor—

ing. The braces 5, 6 and 7 are attached to the respective bracket members by suitable nuts and bolts 12. Attached to the lower vertical bracket member 2 I provide a hook having L-shaped shank 13 and a hook member 14 for attaching the bracket staging to an anchoring member over the gutter.

I provide a novel anchor plate 15 of metal having a downturned or L-shaped end 16 sharpened or pointed to permit of its being driven into a rafter of the roof; and I also provide a series of apertures 17 in the anchor plate 15 through which suitable nails 24 are driven to fasten the anchor plate to a rafter of the roof. This anchor plate 15 is provided with an opening 18 at the lower end to receive the hook 14. The shank 13 of the hook is fastened to the bracket member 2 and to a block 20 mounted in the channel of said bracket member, by means of rivets or bolts 19, as shown in Fig. 1.

Referring to Fig. 7 of the drawings, it will be noted that there is provided a telescoping extension bar 22 in the channel of the horizontal bracket member 3. The bar 22 is provided with spaced apertures 23 which may be aligned with the apertures 21 in bracket member 3 and secured in an adjusted position on member 3 by rivets or bolts 12.

In use the anchor plates 15 are first fastened securely to rafters of the roof and the staging is erected by engaging the hook 14 in the aperture 18 of the anchor plate 15, a very firm and safe anchoring means for the staging. The free end of lower bracket member 3 rests against the side S of the building and when the arrangement of the building makes it desirable, the bracket member may be extended by utilizing the extension bar 22 in the manner illustrated in Fig. 7, whereby the staging will stand out farther from the wall or side of the house. It will be seen that the device can be readily assembled or disassembled and that it provides a very safe gutter bracket for holding staging. After the work of laying slate, asbestos, asphalt, shingles, tile or copper, or painting the roof, or whatever is necessary, has been completed, the plate 15 may be removed and the roof covered with material where the plate came out. The toe board 11 and hand rail 9 are provided to comply with a State law on the subject of staging in applicant's home State. The brackets may be of any suitable material, preferably light channel iron.

What I claim is:—

1. In apparatus of the class described, the combination of an anchor plate adapted to be se—

cured to the rafter of a roof, said anchor plate having an opening in an end projecting beyond the roof, a hook adapted to engage in said opening in the anchor plate, a vertical bracket member to which the hook is fastened, a lower horizontal bracket member disposed at right angles to the first mentioned bracket member and having its free end resting against the side of the house, an upper horizontal bracket member affixed to the aforesaid bracket member and adapted to support the stage flooring, and an upper vertical bracket member adapted to support a toe board and a hand rail.

2. In combination with the apparatus defined in claim 1, braces attached to adjacent bracket members to securely hold same in their proper right angular relations.

3. In combination with the apparatus defined in claim 1, braces attached to adjacent bracket members to securely hold same in their proper right angular relations, and an extensible bar mounted in the lower horizontal bracket member for adjusting the device to houses which differ in the extent to which the roof overhangs the side walls of the house.

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