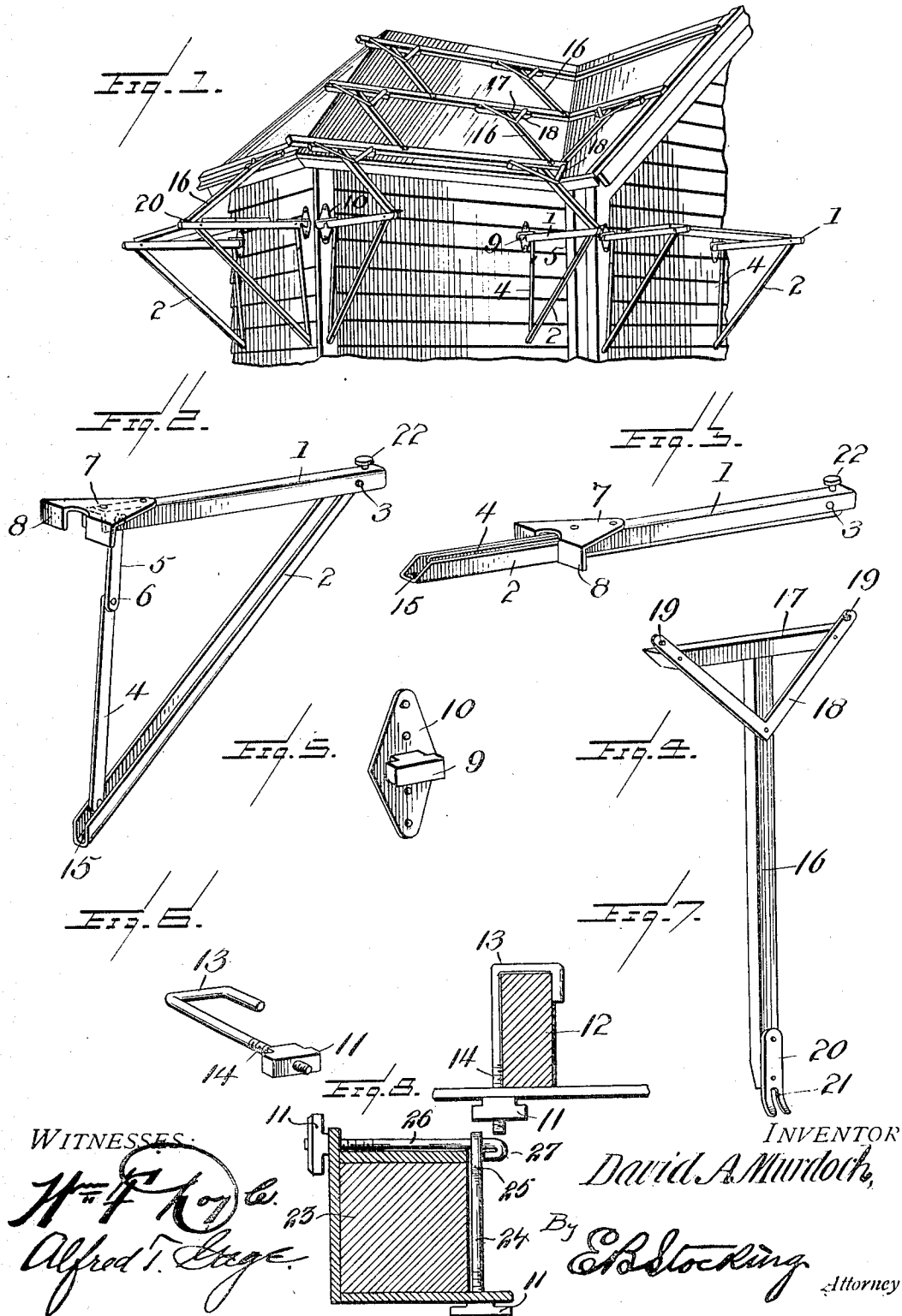


D. A. MURDOCH.
BUILDING SCAFFOLD.
APPLICATION FILED FEB. 8, 1908.

926,013.

Patented June 22, 1909.



UNITED STATES PATENT OFFICE.

DAVID A. MURDOCH, OF YOUNGSTOWN, OHIO.

BUILDING-SCAFFOLD.

No. 926,013.

Specification of Letters Patent.

Patented June 22, 1909.

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To all whom it may concern:

Be it known that I, DAVID A. MURDOCH, citizen of the United States, residing at Youngstown, county of Mahoning, and State of Ohio, have invented certain new and useful Improvements in Building-Scaffolds, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a building scaffold, and particularly to a scaffold and braces therefor.

The invention has for an object to provide a novel form of scaffold bracket comprising channel irons pivotally mounted within each other to fold within the area of one iron thereof, together with braces which may be used as a roof jack in connection with the scaffold.

Other and further objects and advantages of the invention will be hereinafter fully set forth and the novel features thereof defined by the appended claims.

In the drawings:—Figure 1 is a perspective showing the application of the invention; Fig. 2 is an enlarged perspective of the scaffold bracket in position for use; Fig. 3 is a similar view of the bracket folded; Fig. 4 is a perspective of the brace jack; Fig. 5 is a perspective of the connecting block for the bracket; Fig. 6 is a similar view of a modified form of block; Fig. 7 is a cross section showing the application of the modified form of block. Fig. 8 is a similar view showing blocks applied to a corner.

Like numerals refer to like parts in the several figures of the drawing.

Referring to the drawing, the numeral 1 designates a U-shaped channel iron comprising the horizontal member of the scaffold within which the diagonally disposed U-shaped channel iron 2 is pivotally connected at 3, the other end of this latter iron being connected to iron 1 by toggle links 4 and 5 pivoted together at 6 to fold and permit the nesting of the channel levers within each other, as shown in Fig. 3, thus permitting the convenient packing and transportation of the scaffold. The channel iron 1 is provided with the attaching plate 7 secured thereto and having the angularly disposed flange 8 adapted to embrace an attaching device secured to the building structure, for instance as shown in Figs. 5 to 8. In the former figure the device comprises the V-shaped block 9

secured to plate 10 which is attached to a fixed part by any desired means. In Figs. 6 and 7 a similar block 11 is adapted to be clamped to a beam 12 or other fixed part by means of the hooked bolt 13 threaded at 14 to receive the block 11 and secure it in position. Fig. 8 shows means for applying these blocks to a corner stud or beam 23 by means of the bolt 24 having one block threaded thereon and an eye 25 at the opposite end. Through this eye the bolt 26 carrying the other block 11 extends and has a head 27 to engage the eye and permit the parts to be tightly adjusted in position. The bracket thus supported may be held against lateral movement at its lower end by a nail or other attaching device inserted through the aperture 15 in the channel plate 2, while it is also held against vertical movement by means of the jack brace 16 provided at one end with the T-bar 17 connected to the brace 16 by the V-shaped brace 18 secured to these parts and extended beyond the T-bar to provide an apertured end 19 which may be fastened to a foot board or other device secured upon the roof. The opposite end of this jack brace is provided with a plate 20 having a slotted end 21 to embrace the pins 22 upon the bar 1 of the bracket and hold it against any vertical or lateral movement.

In the application of the invention it will be seen that the bracket is readily applied to the attaching devices secured to the building structure and can be used for any building operation, while it is effectually held in position by means of the jack brace which owing to its contact with the foot board upon the roof prevents either vertical or lateral movement thereof, and these jack braces may be used successively upon the roof as found necessary or desirable in the roofing operation so that the scaffold structure is adapted for all parts of the building operation either for the side walls or roof and can be compactly folded for transportation or storage when not in use. It will also be obvious that a multiplicity of jack braces may be provided for use with the scaffold brackets and a roofing jack thereby furnished for completing a shingle or other roof construction as necessary.

Having described my invention and set forth its merits, what I claim and desire to secure by Letters Patent is:—

1. A scaffold bracket comprising a hori-

zontal member, a diagonally disposed member pivoted thereto, a toggle joint connecting these members, an attaching plate upon the inner end of the horizontal member provided
5 with an angular engaging flange thereon, and an attaching member secured to a fixed part and having a head to cooperate with said flange.

2. A scaffold bracket having a horizontal member provided at its inner end with a wall
10 attaching device and at its outer end with a headed projection upon its upper face, and a roof brace having at one end a laterally extending bar and at its opposite end a device
15 to embrace said projection beneath its head.

3. A scaffold bracket having a horizontal member provided at its inner end with a wall
attaching device and at its outer end with a
headed projection upon its upper face, and a
20 roof brace provided at one end with a lateral head and securing means extending there-

from at each end and at its opposite end with a slotted plate to embrace said projection.

4. In a building scaffold, a jack brace comprising a T-shaped structure having a secur- 25
ing brace extended from the longitudinal bar to and beyond the horizontal bar thereof, and a wall bracket connected to the free end of the longitudinal bar.

5. In a building scaffold, a jack brace com- 30
prising a T-shaped structure having a brace extended from the longitudinal bar to and beyond the horizontal bar thereof, a connecting plate carried by the free end of the longitudinal bar thereof, and a wall bracket hav- 35
ing means engaged by said plate.

In testimony whereof I affix my signature in presence of two witnesses.

DAVID A. MURDOCH.

Witnesses:

GEO. H. GLAZZARD,
A. J. GILLESPIE.