G. BONENBERGER.

ADJUSTABLE SCAFFOLD.

APPLICATION FILED FEB. 12, 1913. RENEWED APR. 6, 1914.

1,109,505. Patented Sept. 1, 1914.

Fig. 1.

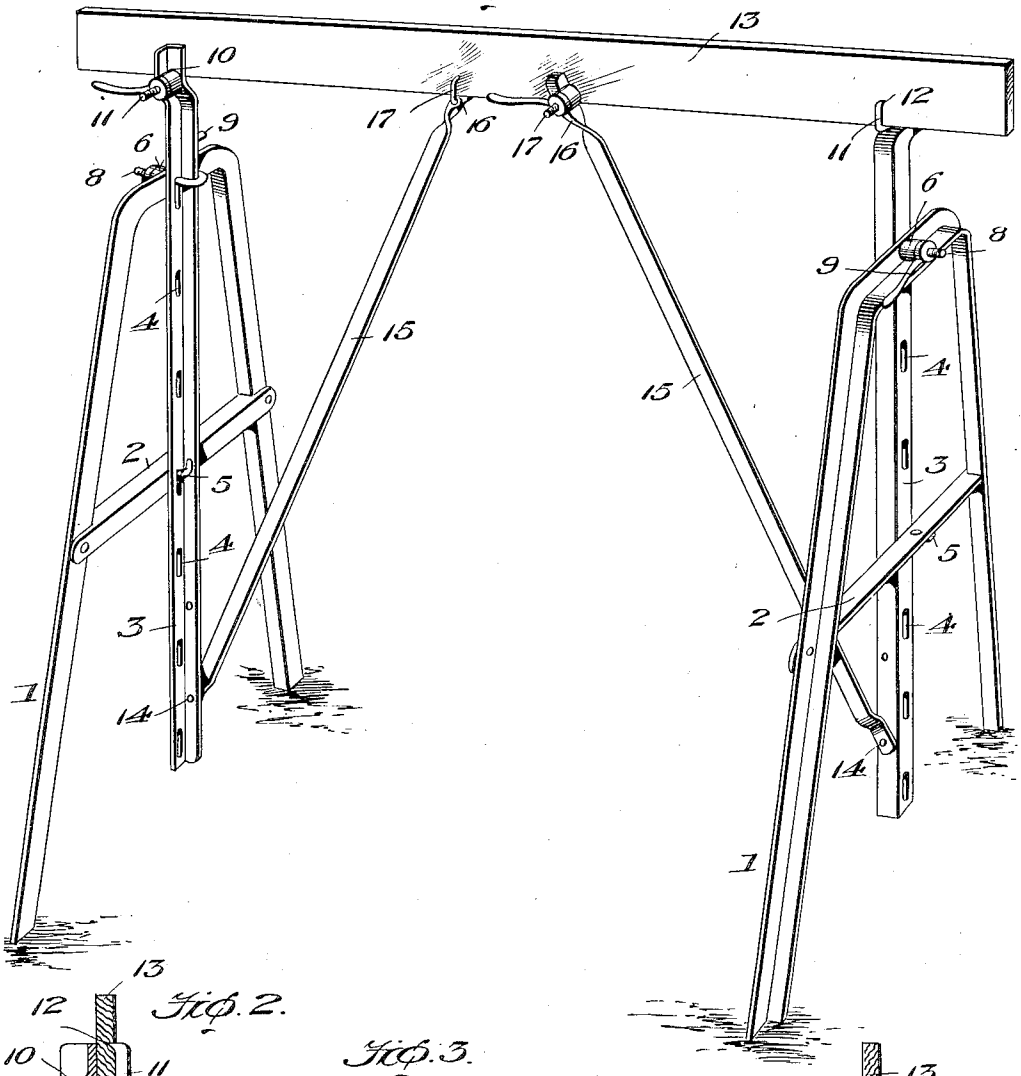


Fig. 2.

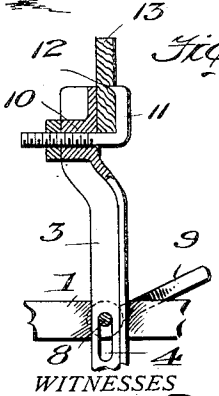
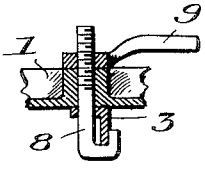


Fig. 3.



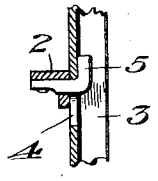


Fig. 4.

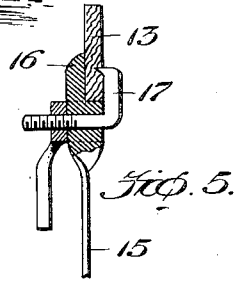


Fig. 5.

WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE BONENBERGER, OF EVANSVILLE, INDIANA, ASSIGNOR TO STEEL SCAFFOLDING COMPANY, OF EVANSVILLE, INDIANA, A CORPORATION OF INDIANA.

ADJUSTABLE SCAFFOLD.

1,109,505. Specification of Letters Patent. Patented Sept. 1, 1914.

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To all whom it may concern:

Be it known that I, GEORGE BONENBERGER, a citizen of the United States, residing at Evansville, county of Vanderburg, and State of Indiana, have invented certain new and useful Improvements in Adjustable Scaffolds, of which the following is a specification.

My invention relates to adjustable scaffolds.

The present invention has for its object the provision of an adjustable scaffold of the trestle type which will be of strong, durable and inexpensive construction and provided with improved quick-acting devices for clamping and adjusting up and down a piece of board or timber constituting the plank supporting member of the scaffold.

My invention seeks to provide improved means whereby lateral movement of the adjustable scaffold is minimized and this I accomplish by the provision of a leg or standard having a fixed member and an adjustable clamping member, combined with a vertically adjustable angle-iron supporting bar, a brace, and other instrumentalities appearing more fully hereinafter.

In the accompanying drawings: Figure 1 is a perspective of a scaffold constructed according to the present invention; Fig. 2, a detail vertical section of the upper part of the upright and the upper hook clamp; Fig. 3, a detail cross section of the other hook clamp; Fig. 4, a detail vertical section showing the hook on the frame; and Fig. 5, a detail section showing the hook clamp on the brace.

The complete scaffold consists of duplicate constructions, only one of which is described, a pair being used to support a plank in a horizontal position, subject to leveling and any desired up and down adjustment. With two such trestle scaffolds provided, it is only necessary to rest planks on them to provide a complete scaffold.

The present invention resides in the construction of one of the adjustable scaffold supports and its brace.

The standard or frame 1 is of angle-iron construction and preferably in one piece with the exception that its cross brace 2 is riveted or welded to the legs thereof. This insures rigidity and strength. The adjustable upright 3 is of angle-iron construction and provided with elongated slots 4 in one of its webs. On the cross-piece 2 is a rigid hook 5 which is adapted for reception in any one of the lower elongated openings 4.

Extending loosely through the upper part of the frame 1 is a clamp 6 which is adapted to pass through any one of the uppermost of the openings 4 and has a screw-threaded shank 8 on which is a clamping handle 9, by which the adjustable upright may be rigidly clamped against the frame 1, a part of the weight sustained by the upright being taken up by the hook 5 and another part by the hooked clamp 6 and the latter, by reason of its drawing the upright firmly against the frame, affords absolute rigidity of connection of the upright to said frame.

The upper part of the upright is offset and may be solid at 10, through which loosely passes the shank of a hook clamp 11, which is in all respects similar to the hook clamp 6 except that it has a point 12 adapted to embed itself in the wooden trestle plank or top 13 which is supported in edgewise position by the said hook clamp, the latter firmly binding the plank 13 against the upper end of the upright.

Pivoted at 14 to the upright is a brace 15 having a seat 16 arranged oppositely to the offset upper part of the upright and there is provided a hook clamp 17, similar to the hook clamp 11, but which is arranged oppositely thereto so that it clamps against the opposite side of the plank 13, thus preventing lateral springing of the plank.

The upright being vertically adjustable may be raised or lowered to any desired extent, and the brace being pivoted, can be brought to any angle to properly engage the plank 13.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. In an adjustable scaffold, the combination with a frame having a laterally projecting fixed hook, of a laterally projecting hook clamp carried by the frame at a different height from the fixed hook, said hook and hook clamp being in vertical alinement, an angle iron upright provided with a row of elongated openings, different ones of which are adapted to receive the hook and the hook clamp at different heights of said upright at the same time, said hook clamp being adapted to engage one of the webs of said angle iron upright and to bind it

against the frame, and means on the upright adapted to engage a scaffold or trestle cross-piece.

2. In an adjustable scaffold, the combination with a frame, of an upright adjustable in relation thereto, means for securing the upright to the frame, a brace pivoted to the upright, and oppositely set hook clamps carried by the brace and the upright which are adapted to receive a scaffold plank and to engage opposite sides thereof.

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

GEORGE BONENBERGER.

Witnesses:
J. R. GOODWIN,
F. C. GORE.