(No Model.)

D. UNVERFERTH.

SCAFFOLD.

No. 339,502. Patented Apr. 6, 1886.

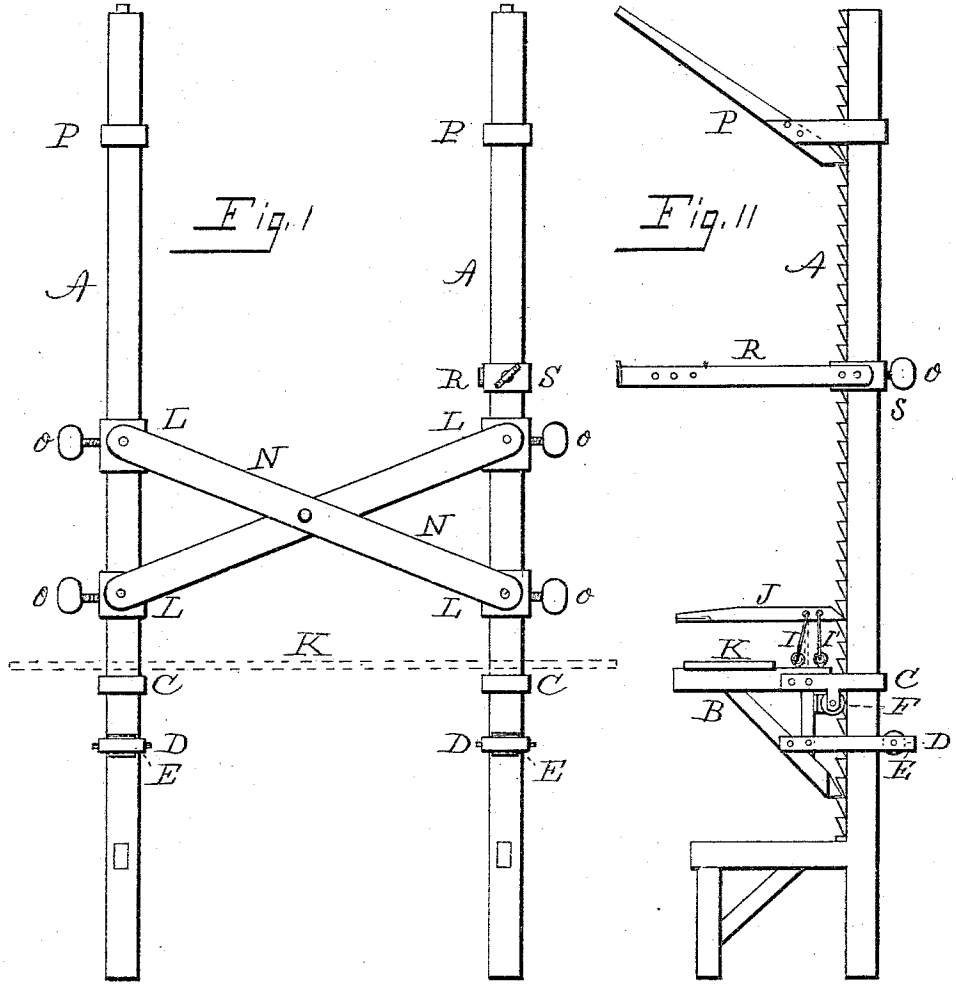


Fig. I

Fig. II

Witnesses
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UNITED STATES PATENT OFFICE.

DAVID UNVERFERTH, OF DAYTON, OHIO.

SCAFFOLD.

SPECIFICATION forming part of Letters Patent No. 339,502, dated April 6, 1886.

Application filed January 27, 1886. Serial No. 189,912. (No model.)

To all whom it may concern:

Be it known that I, DAVID UNVERFERTH, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented a certain new and useful Improvement in Scaffolds; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to improvements in scaffolds, the several features of which will be fully hereinafter set forth.

The objects are to construct a scaffold which will be readily adjustable at different altitudes, that will stand securely when attached to a building, and has arms connected therewith to form a canopy to protect the workmen. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure I is a rear view of the scaffold. Fig. II is a side view of one post of the same.

A are the posts or uprights, which, with a view to widening the base, have a triangular frame attached near the bottom by tenons. One half of the inner faces of the posts are provided with serrated notches, the other half being plane.

B is a triangular bracket, the brace being provided with a pointed end to enter the notches of the posts. On the lower end of the bracket is bolted a stirrup, D, and within the outer end is pivoted the roller E, which arrests the movement of the bracket as the brace is withdrawn from the notches. The stirrup C is likewise bolted to the top of bracket, and which serves to hold the bracket to the post. To this stirrup is a projection which serves as a bearing for the roller F, the opposite bearing being an arm bolted to the vertical part of the bracket. The use of this pulley is to relieve the friction in moving the bracket upward. When the bracket is at rest, the support is from the point of the bracket and the stirrup C.

K is a plank laid on the bracket to support the workmen. The same is shown in dotted lines, Fig. I.

J is a lever, from which are suspended two hooks, I I′, which engage eyebolts in the bracket. The latter are used in raising the brackets, and only one is used at a time. The former is used in lowering the bracket, and the connection should be so far from the post that raising the lever will tend to draw the point of the bracket from the notch and hold the same without until the lowering of the bracket has passed the point of said notch, when it will settle into the next notch, and so on successively. When the hook I is detached, it will hang as indicated by the dotted lines.

R is an arm. The inner end is fastened to the clamp S, which embraces the upright, and is fastened in position by the thumb-screw O. The outer end is bent to engage the inside of the wall of a building, and may be fastened in the paddock of a brick wall. This end has also a series of holes for bolts to fasten to studding or facing.

The arm P is pointed at its lower end to enter the notches of the upright, and is supported by a stirrup which embraces said upright, and consequently can be placed in any position along the same. A series of these arms are arranged along the uprights, and by placing canvas over these a canopy is formed to protect the workmen against excessive heat or rain.

N N are bars pivoted at their centers, and their ends are pivoted to the clamps L, which are adapted to partially embrace the uprights, and are tightened against said uprights by the thumb-screws O. These bars thus pivoted are readily adapted to uprights at varying distances apart, and form a substantial lateral adjustable brace.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The movable bracket B, with pointed brace and stirrups C and D, the latter carrying the roller E, and the roller F, in arrangement with a notched upright to form an adjustable scaffold, substantially as set forth.

2. The combination of the pointed lever J, with hooks I I′, the movable bracket B, with

eyebolts, and the notched upright, substantially as and for the purpose set forth.

3. The adjustable cross-brace composed of pivotal bars N N, to the ends of which are pivotal clamps L with binding-screws, these parts in combination with uprights, substantially as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

DAVID UNVERFERTH.

Witnesses:
B. PICKERING,
SUMNER T. SMITH.