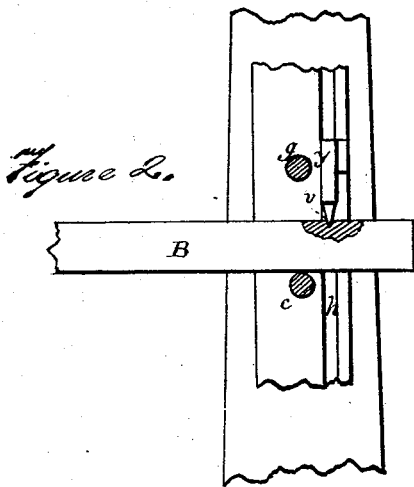
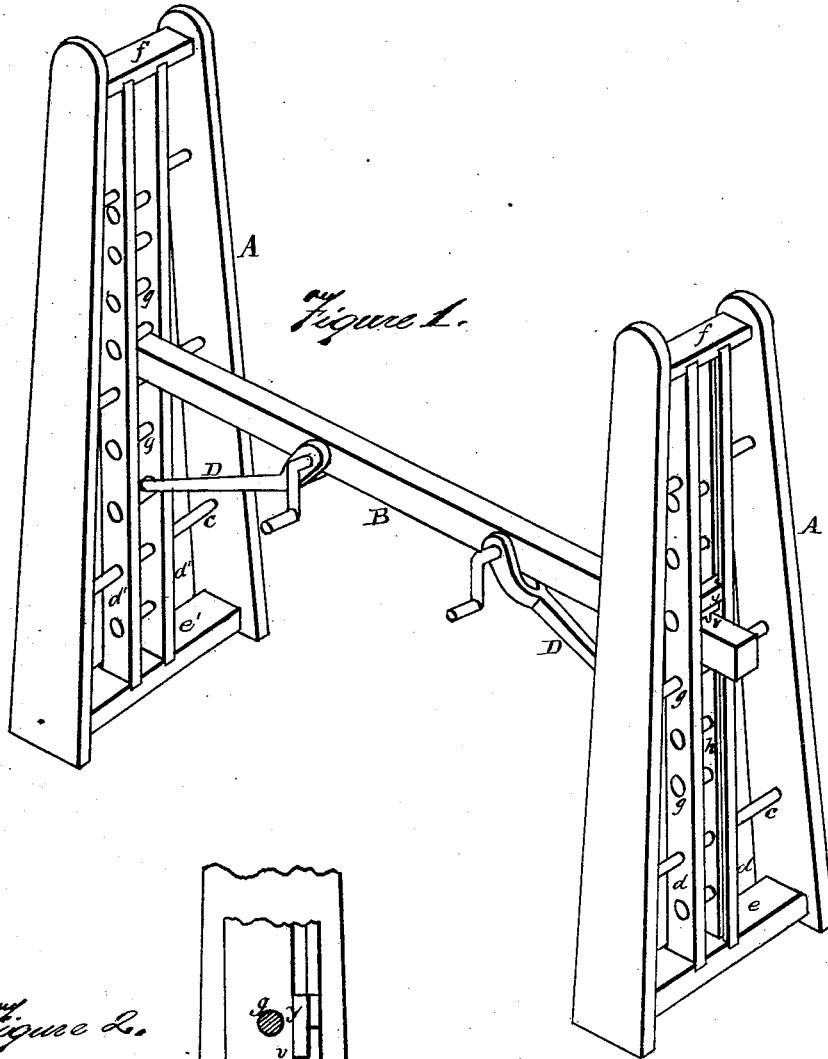


W. BURGE.  
Scaffold.

No. 163,733.

Patented May 25, 1875.



WITNESSES  
*Robert Emmett*  
*George C. Upham*

INVENTOR  
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# UNITED STATES PATENT OFFICE.

WILLIAM BURGE, OF MAUMEE, ASSIGNOR OF ONE-HALF HIS RIGHT TO  
TIMOTHY W. RYAN, OF SOUTH TOLEDO, OHIO.

## IMPROVEMENT IN SCAFFOLDS.

Specification forming part of Letters Patent No. **163,733**, dated May 25, 1875; application filed  
April 24, 1875.

*To all whom it may concern:*

Be it known that I, WILLIAM BURGE, of Maumee, in the county of Lucas and State of Ohio, have invented a new and valuable Improvement in Scaffolds; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a perspective view of my scaffold; and Fig. 2 is a detail view of the same.

My invention relates to a scaffolding; and it consists in the novel means hereinafter described and claimed for elevating and securing beams for platforms or other uses, at any desirable altitude.

The letters A of the drawings represent two frames, usually constructed in a triangular form, as shown, and having their upright posts secured together by means of bolts *c*. In the central portion of these frames I arrange two upright posts, *d d'*, upon cross-bars *e e'*, and secure their summits in cap-pieces *f f*, as shown. Passing through these posts *d*, and secured therein by means of nuts, are the removable threaded bolts *g*. These bolts *g* and the bolts *c* serve as supports for the cross-beam B, hereinafter mentioned, and also for the braces, by which said beam is sustained and strengthened. B represents my cross-bar, which serves as a supporting-beam for scaffolding, or any like purposes. The ends of this beam rest, respectively, upon bolts *g* or *c*, above mentioned, two of the frames described being provided for that purpose. D represents my braces. They are constructed in the form shown in Fig. 1, and are arranged in such manner that their lower ends, being of sleeve shape, shall clasp around a bolt, *c* or *g*, and be removable by removing said bolts, or otherwise. The upper ends of these braces are

bifurcated, and so constructed that they may be clamped firmly to the cross-beam by means of a spur on one side and a pointed and threaded crank-pin on the other. On the inner sides of the uprights *d d'* I form grooves, shown at *h* on Fig. 1, and arrange therein slides marked *y*. These slides have, respectively, on their lower edges, spurs marked *v*, and they are moved upward or downward at will, in the grooves or channels *h*.

To arrange the cross-beam at any desired altitude, and secure it in position, I take two of the frames described and lift the ends of said beam upon the bolts I may elect. I then swing the braces D upward, and attach their upper ends to the beam firmly by means of the crank-pin, and the spurs in the opposite sides of the jaws. These braces being sleeved around the bolts are substantially pivoted thereto, as well as adjustable and removable. I next force the spurs on the slides *y* into the top of the beam by a blow of a hammer, and the beam becomes securely and rigidly attached to the frames.

For any purpose requiring only a single beam, two, only, of the frames, are required; but for the purpose of forming a bed for a scaffold-floor, four frames are necessary.

What I claim as new, and desire to secure by Letters Patent, is—

1. The frames A, constructed with central posts *d d'*, and removable bolts *g*, substantially as and for the purpose specified.

2. The combination of the slides *y*, having spurs *v*, and working in grooves *h*, with the removable braces D, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM BURGE.

Witnesses:

P. C. HOLT,  
J. E. WILCOX.