

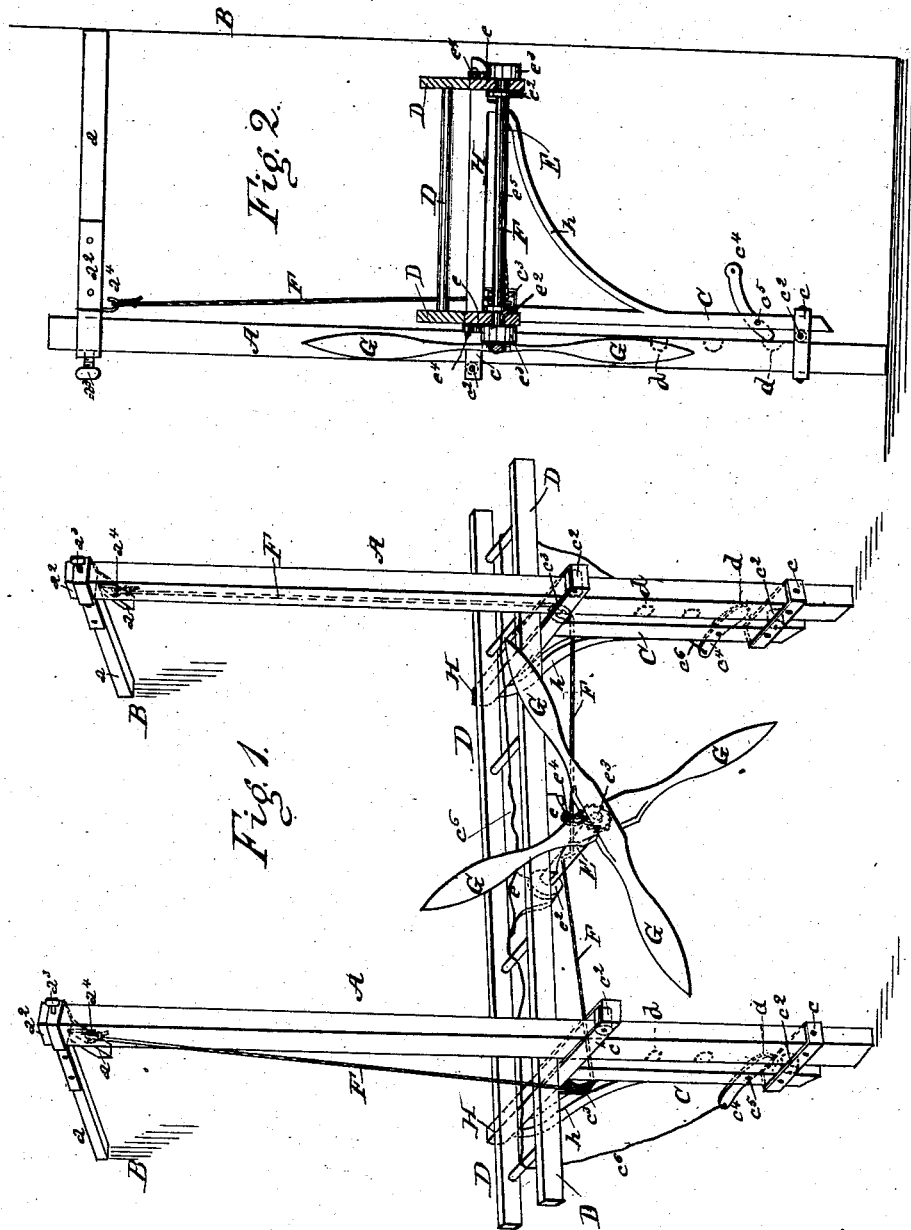
(No Model.)

G. W. SMITH.

SCAFFOLD.

No. 264,577.

Patented Sept. 19, 1882.



WITNESSES:

Chas. Beyer
C. Sedgwick

INVENTOR:

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BY

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UNITED STATES PATENT OFFICE.

GEORGE W. SMITH, OF HARLANSBURG, PENNSYLVANIA, ASSIGNOR TO
HIMSELF AND JOHN C. DEAN, OF SAME PLACE.

SCAFFOLD.

SPECIFICATION forming part of Letters Patent No. 264,577, dated September 19, 1882.

Application filed April 18, 1882. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WASHINGTON SMITH, of Harlansburg, in the county of Lawrence and State of Pennsylvania, have invented a new and Improved Scaffold, of which the following is a full, clear, and exact description.

This invention relates to improvements in scaffolds; and it consists in the combination and arrangement of parts substantially as hereinafter more fully set forth.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a perspective view of my invention, and Fig. 2 is a transverse vertical section of the same.

A are posts, provided at their upper ends with V-shaped arms or braces *a*, which support the posts against a wall, B. These arms or braces are provided with keepers or frames *a*², which slide upon the upper portions of the posts A, and are secured at any desired height thereon by set-screws *a*³.

C are posts or bars, having near their lower ends links or keepers *c*, which slide upon the posts A and serve to hold the posts C thereto. The said links are provided with friction-rollers *c*² on the inner side of the posts A, to cause them to slide easier upon said posts A. The posts C are also provided with pawls or levers *c*⁴, pivoted to said posts by pins *c*⁵ and engaging with sockets *d* in the posts A, and being provided with cords *c*⁶ for raising and disengaging said pawls from said sockets.

H are horizontal arms or bars secured to the posts C and braced and supported by braces *h*. The said arms H are provided with keepers *e*, similar to those on the lower ends of the posts, except that the roller *c*² thereof is on the outer side of the posts A.

D is a platform resting upon the arms H. It is provided with bearings *e*, in which revolves a shaft, E. This shaft has ratchet-wheels *e*³ keyed or otherwise secured to it, with which engage pawls *e*⁴, secured to the bearings *e*. The said shaft E is also provided

with levers or hand-spikes G for revolving it, and a perforation or eye, *e*⁵, for the passage of a rope, F, which passes under the pulleys *c*³, secured to the posts C, and has its ends attached to hooks *a*⁴ in the arms *a*.

The operation of my invention is as follows: To raise the scaffold the shaft E is revolved by means of the levers G, thus winding up the rope F, which, passing under the pulleys *c*³, raises the posts C and platform D. As it is raised the pawls *e*⁴ and ratchet-wheels *e*³ prevent it from again descending until they are disengaged, and it is also prevented from descending by the pawls or catches *e*⁴. When it is desired to lower the platform the catch *e*⁴ is released by pulling the cord *c*⁶, and the pawls *e*⁴ are released and the rope F allowed to unwind from the shaft E.

If it is desired to have one end of the platform higher than the other, it can be done either by adjusting one of the V-shaped arms *a* at a greater height than the other or by moving the cord through the eye *e*⁵ of the shaft E.

Among the advantages of my invention are the following:

First, it is safer than the forms of scaffolding formerly in use, as it is prevented from falling by two ratchet-wheels and pawls on the shaft E and catches *e*⁴ on the posts C.

Second, if desired, the platform may be raised higher at one end than the other, or it may be kept perfectly level.

Third, it is easier to raise than the scaffolds formerly in use.

Fourth, the posts are inclined from a vertical line toward the wall about half an inch to the foot, and the scaffold is thus prevented from falling outward.

Fifth, the apparatus may be used for various purposes.

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

In a scaffold, the combination, with the upright or slightly-inclined posts A, having adjustable forked braces *a*, provided with hooks *a*⁴ or means of attachment for the platform—

hoisting ropes thereto, of the platform D, the
sliding uprights C, having the horizontal bars
H fitted to move upon the posts A, the han-
dled shaft or drum E, having passed through
5 it the platform-hoisting rope F, passing in
contact with pulleys c^3 , hung upon the up-
rights C, said rope having its ends secured to
the hooks a^4 of the braces a , the levers c^4 , piv-

oted to the sliding uprights C and bearing in
sockets in the posts A, and cords c^6 , connect- 10
ed to the outer ends of said lever and passed
over the platform D, substantially as set forth.

GEORGE WASHINGTON SMITH.

Witnesses:

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JOHN PARKER.