C. M. Tanner.

Scaffold.

No. 60,085. Patented Nov. 27, 1866.

Fig. 2.

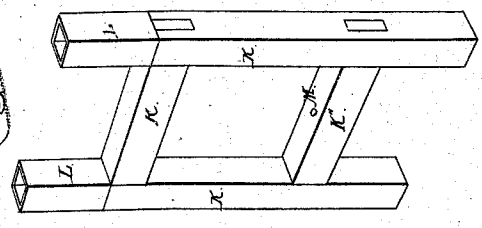


Fig. 1.

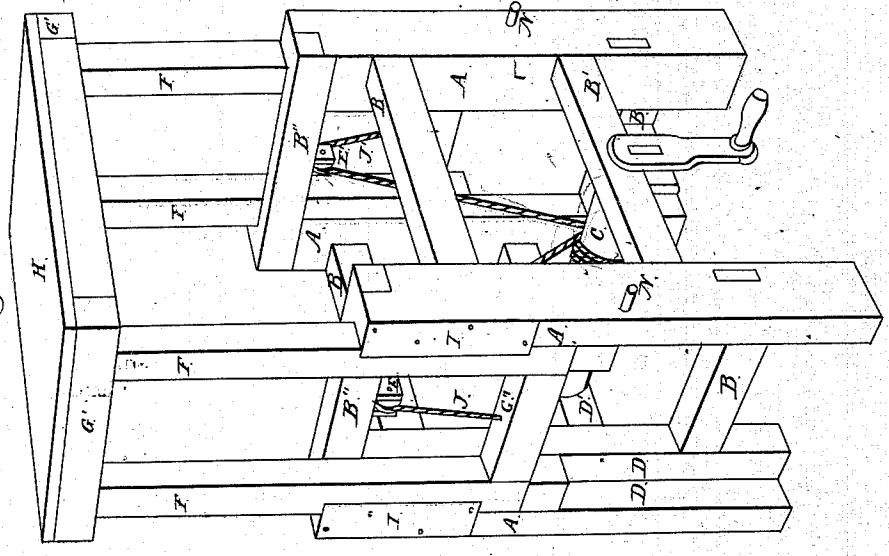
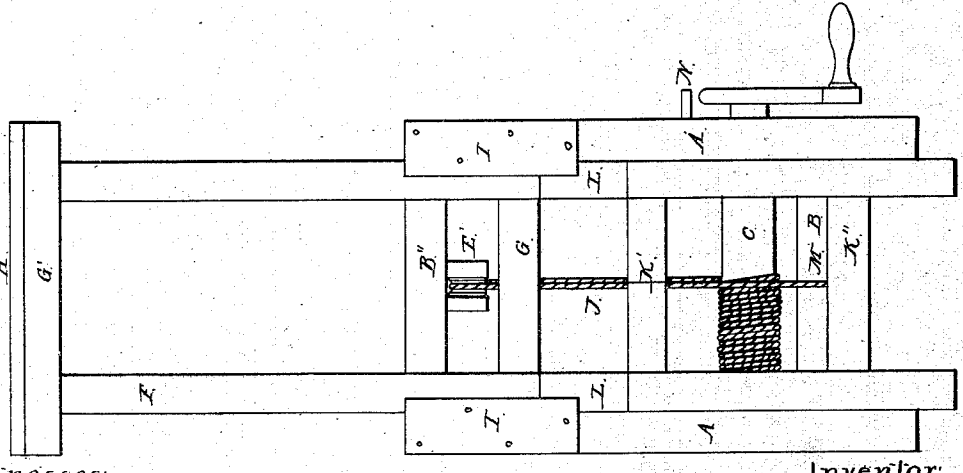


Fig. 3.



Witnesses:
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Inventor:
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United States Patent Office.

IMPROVED SCAFFOLD.

CHARLES M. TANNER, OF MENTOR, OHIO.

Letters Patent No. 60,085, *dated November* 27, 1866.

SPECIFICATION.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, CHARLES M. TANNER, of Mentor, in the county of Lake, and State of Ohio, have invented a new and useful improvement in Extension Scaffolds; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a view in perspective of my said improved extension scaffold, with the stage or platform elevated.

Figure 2, a perspective view of one of a pair of framed extension legs for extending the platform still higher; and

Figure 3, a side elevation with said framed legs attached.

Similar letters of reference indicating the same parts in all the drawings.

The main feature of my improvements consists in the mode employed for hoisting the frame of the stage or platform of the scaffold to the required height, by means of additional or auxiliary pairs of supports, which fit into and connect with the framed supports of the said stage or platform, and by means of the same windlass which is used for raising said frame, by simply removing the hoisting-ropes from the one and attaching them to the others, as will be explained. Secondly, in the manner of constructing and operating the main frame so that the stage or platform frame is kept steady and free from swaying whilst elevating, as will be shown.

The following is a description of the construction and operation of my said improved extension scaffold:

The main frame consists of four upright posts, A, fig. 1, secured together by eight ties, B, B′ B″, as seen. The two lower ties, B′, support a roller-windlass, C, on which is a pawl and ratchet, not seen. Angular recesses, one of which is seen at D, are formed on each pair of said posts, on their outer sides. Under the upper pair of ties, B″, are pulley-blocks E and E′. This completes the main or stationary frame. The other, or sliding-frame, is constructed thus: Two pairs of legs, F, are framed by ties G and plates G′, the lower ties having holes, G″, for attaching the hoisting-ropes, hereafter mentioned. On the top of this frame is the stage or platform, H. The said frame is connected with the main frame by the pairs of legs, F, and fits into the recesses, D, in which they slide up and down. They are kept in place by long iron guide-plates, I. Two hoisting-ropes, J and J′, from the windlass, are passed through pulleys E′, hung under the ties, B″, as seen, and are secured to the ties, G. Fig. 3 represents one of a pair of additional framed legs employed in connection with the before-mentioned sliding and main frames. It consists of two legs, K, and ties K′ and K″. Secured on the upper ends of said legs are cast-iron sockets L L, made to fit and receive the lower part of the legs of the sliding-frame, as shown. The lower tie, K″, and the corresponding tie are provided with holes, M, through which the ends of the hoisting-ropes are secured for elevating the platform.

The operation is thus: By turning the windlass the stage is elevated—the pawl and ratchet retaining it at the desired height. When it is required to raise the stage still higher the auxiliary pairs of framed legs are united with those of the sliding-frame by means of their sockets, L, the said sliding-frame being first temporarily supported by pins, N, fig. 1. The ropes are then removed from the sliding-frame and fastened to the said auxiliary pairs, and the process of elevating the stage is conducted as with the first or sliding-frame; and so with as many pairs as are needed to reach the desired elevation.

I claim the sliding-frames which support the stage or platform H, in combination with the main frame constructed with recesses D, guide-plate I, windlass C, hoisting-ropes E and E′, and additional pairs of framed legs provided with sockets L, as herein described, and operating as and for the purpose set forth.

CHARLES M. TANNER.

Witnesses:

J. F. SINGLE,

M. S. HARVEY.