March 20, 1928. 1,663,131

F. B. JOHNSTON

SCAFFOLD

Filed Feb. 24, 1927

Fig. 1.

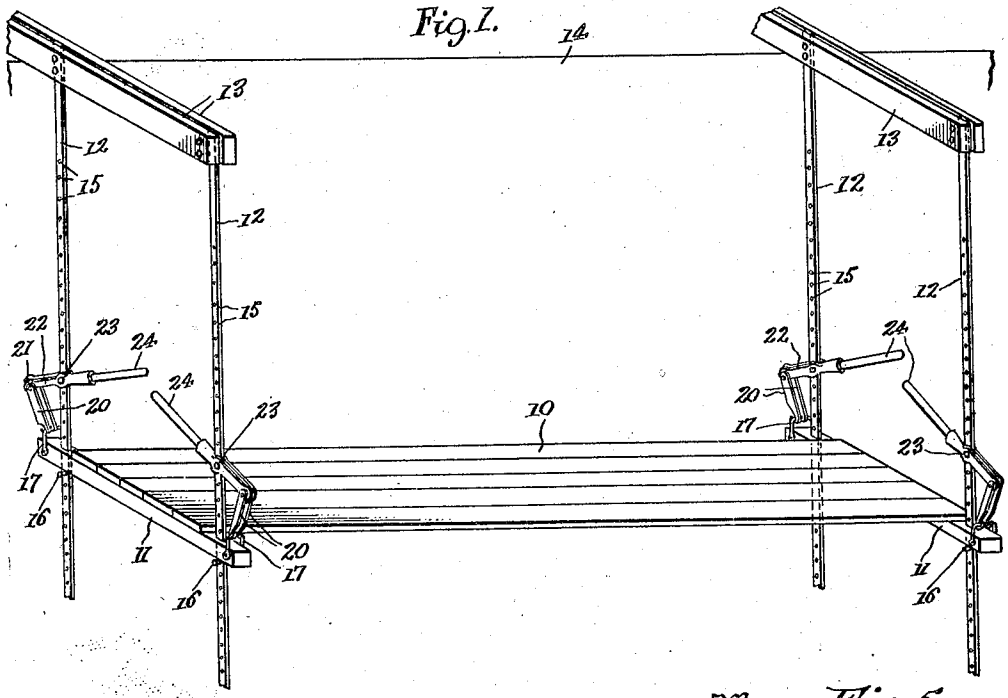


Fig. 2.

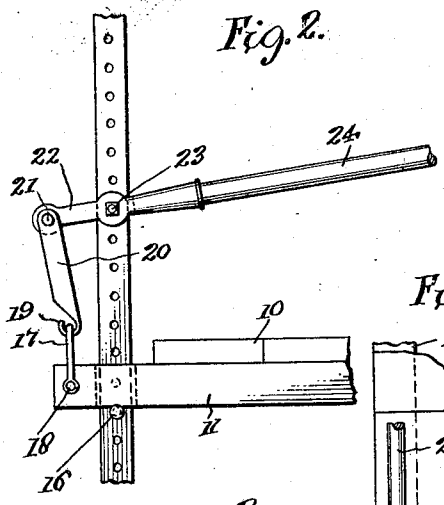


Fig. 3.

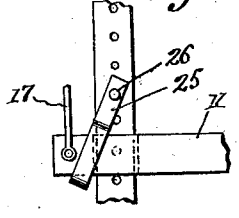


Fig. 4.

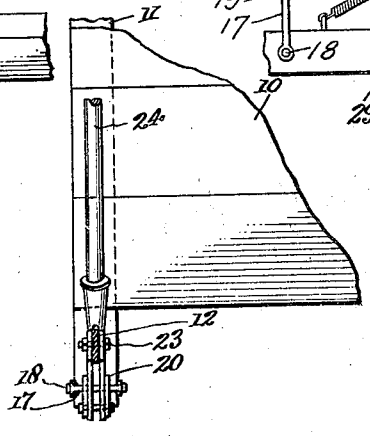
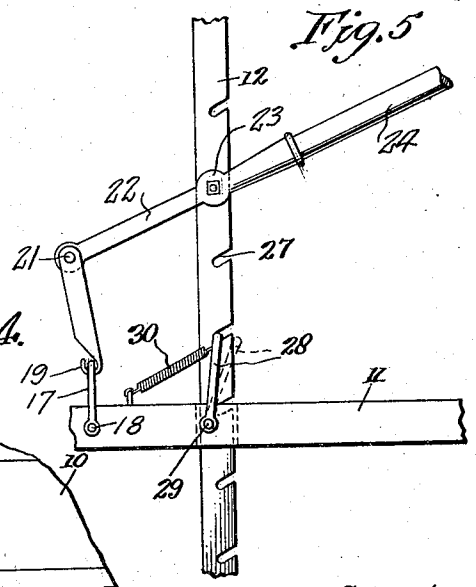


Fig. 5



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UNITED STATES PATENT OFFICE.

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SCAFFOLD.

Application filed February 24, 1927. Serial No. 170,542.

The present invention relates to scaffolds, and more particularly to means for manually raising and lowering the scaffold and securing the same in adjusted position.

An object of the present invention is to provide a simple and easily attached mechanism capable of manual operation of raising and lowering the platform and for holding the platform in its adjusted position, so that the platform may be stepped up or down according to the desired adjustment.

Another object of the invention is to provide a manually operable device of this character which may be easily handled and which may be used in multiple, such as one at each corner of the scaffold, so that the scaffold platform may be stepped up or adjusted at different points.

With the foregoing and other objects in view, the invention will be more fully described hereinafter, and will be more particularly pointed out in the claim appended hereto.

In the drawings, wherein like symbols refer to like or corresponding parts throughout the several views.

Figure 1 is a perspective view of the scaffold suspended and supported according to the present invention.

Figure 2 is a detail enlarged side elevation of one of the manually operable adjusting devices as applied to the scaffold and one of the supports therefor.

Figure 3 is a fragmentary detail view of the lower portion of Figure 2, showing a modified construction of adjustable support for the putlog of the scaffold.

Figure 4 is a fragmentary top plan view of the device as shown in Figure 2, and

Figure 5 is a fragmentary enlarged side elevation of an automatic locking device between the putlog and the supporting member for automatically locking the putlog in adjusted position.

Referring to the drawing, 10 designates a platform of a scaffold which may be constructed in the usual manner of a plurality of boards arranged lengthwise and in edge contact with each other across putlogs 11 arranged at the ends of the platform. The putlogs 11 may be of any desired construction and may be made of spaced beams of the conventional size which are of sufficient length to extend beyond the inner and outer edges of the platform 10, and which are adapted to receive between their opposite ends the vertical straps or other supports 12. which are suspended from outriggers 13 or the like which project outwardly from the upper edge of a wall 14. The straps or supports 12 are four in number according to the present illustration and are provided at suitably spaced intervals with transverse apertures 15 extending therethrough and of sufficient size to receive each a removable pin 16 which engages the lower edge of the putlog 11 to support it from sliding downwardly upon the strap 12, and to thus support the platform 10. Each putlog 11 is provided at its outer end with a link 17 which is mounted upon a pivot 18 permanently upon the putlog, if desired, so that the links 17 will always be in position to engage a hook 19 carried upon the lower end of a link 20 which in turn is pivotally connected by a bolt or rivet 21 to the end of an operating lever 22. The operating lever 22 may be of forked construction so as to straddle or engage about the strap 12, and the intermediate portion of the lever 22 is apertured to receive a quickly detachable bolt 23 adapted to pivot the lever 22 to the support 12 at different points by engagement of the bolt 23 in the selected openings 15.

The lever 22 may have its inner or handle end socketed to detachably receive therein the end of a handle 24. The handle 24 may be of suitable length so as to be grasped by the person operating the device and so that sufficient leverage may be obtained for drawing up the link 20 and lifting the adjacent end of the putlog 11.

From Figure 3 it will be seen that instead of the pin 16 engaging through the strap 12 beneath the putlog 11, a stirrup 25 may be employed for engaging about and beneath the adjacent end of the putlog 11 and supported at its upper end by a removable bolt or pin 26 which is engaged in the selected openings 15 of the support. By this latter construction the adjustable pin 26 is in a position of more easy access than is the pin 16 beneath the putlog.

If desired, an automatic means may be employed for locking the putlog 11 to the support 12 when the putlog is raised. According to the modification of Fig. 5 the support 12 is provided along its edge with a plurality of notches or open slots 27 which

are inclined inwardly and downwardly from the edge of the support 12. The putlog 11 carries a link or loop 28 pivoted to the putlog at 29 and urged at its outer end by a spring 30 against the edge of the support 12 so that the loop 28 swings into the notches 27 when the putlog 11 is raised sufficiently to bring the free end of the link into register with the notches. As the notches are inclined upwardly and outwardly, the act of lifting the putlog 11 first releases the loop 28 from its notch and the edge of the support 12 holds the loop 28 from interlocked position until the next higher notch 27 is reached.

I have illustrated and described a preferred and satisfactory embodiment of my invention, but it is obvious that changes may be made therein within the spirit and scope thereof as defined in the appended claim.

What is claimed is:—

In a scaffold, a platform having a putlog projecting from the edge thereof, a vertical support having inwardly and downwardly inclined notches along one edge, a lever adjustable upwardly on the support, a connection between the lever and the putlog for elevating the latter, a loop pivoted upon the putlog, and a spring disposed between the putlog and the loop for normally urging the latter against the edge of the support and moving the loop into a registering notch as the putlog is elevated by the lever.

In testimony that I claim the foregoing as my invention, I have signed my name hereto.

FRANK B. JOHNSTON.