Sept. 30, 1952 L. M. POLAK, JR 2,612,413

SCAFFOLD SUPPORT

Filed Oct. 4, 1946

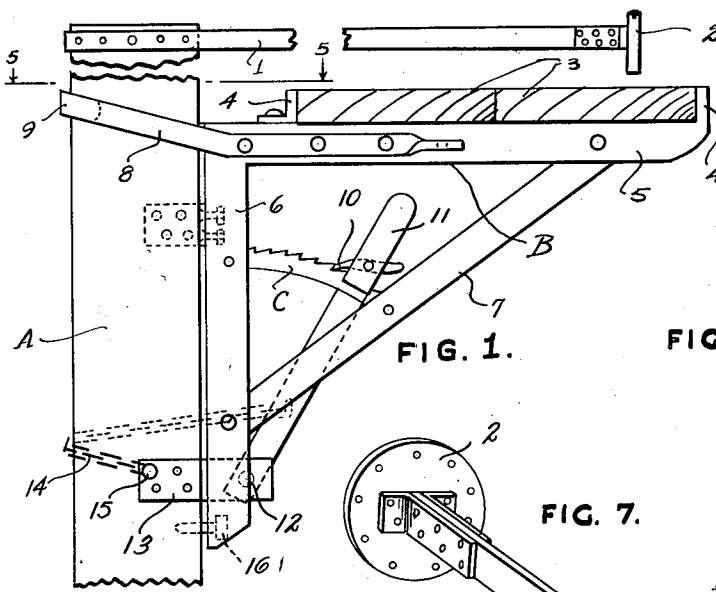


FIG. 1.

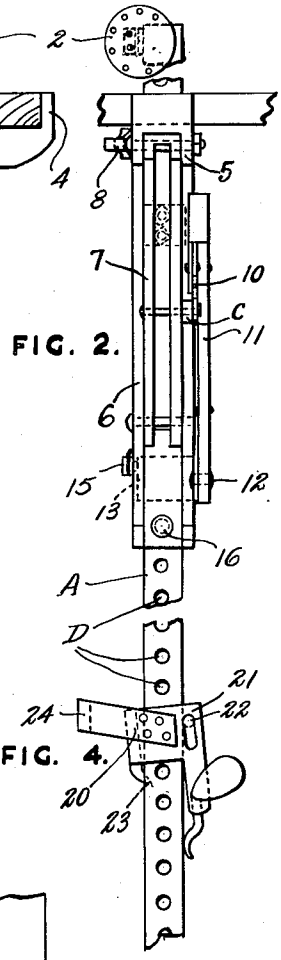


FIG. 2.

FIG. 7.

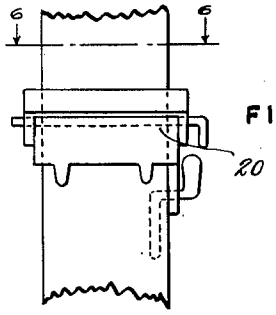


FIG. 3.

FIG. 4.

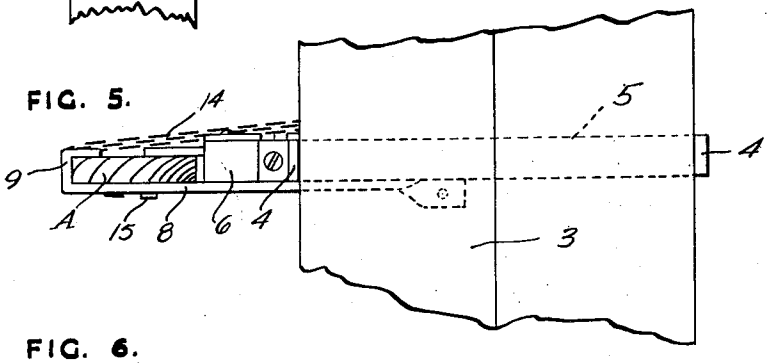
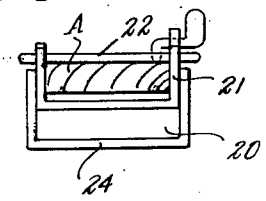


FIG. 5.

FIG. 6.



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SCAFFOLD SUPPORT

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2 Claims. (Cl. 304—11)

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This invention relates to a scaffolding support structure which has as its primary object the provision of a scaffold support structure for use in the building and repairing of houses which is vertically adjustable to any height and a structure which may be quickly and easily applied to and removed from the building.

Another object of this invention is to provide a safe and durable support of the character described which is of simple and inexpensive design and which may be easily disassembled in parts easily transportable.

Still further objects and advantages of this invention will readily appear to those skilled in the art upon examination of the following description in the light of the accompanying drawings in which:

Fig. 1 is a side elevation of the structure.

Fig. 2 is a front elevation of the structure.

Fig. 3 is a front elevation of the step.

Fig. 4 is a side elevation of the step.

Fig. 5 is a top plan view.

Fig. 6 is a top plan view of the step the upright shown in horizontal section.

Fig. 7 is a perspective view of the fastening plate.

Referring now to the drawings in which like numerals indicate similar parts throughout the drawings A designates a vertical upright or post which is maintained in an upright position at a spaced distance from the building wall by a horizontal member 1 which is secured to the top of the upright and which carries at its extremity a circular plate 2 which is adapted to be nailed or screwed to the building.

The ends of the scaffold walking boards 3 are secured by clamps 4 to the horizontal leg 5 of a triangular bracket B which comprises a second leg 6 perpendicular to leg 5 and an angular brace 7 interconnecting the extremities of legs 5 and 6.

Secured horizontally to the leg 5 of the bracket is a hook member 8 terminating in a U shaped hook 9 adapted to clamp the upper end of the bracket B to the upright A.

Rigidly supported between the leg 6 and the brace 7 is toothed ratchet track C which engages a pawl 10 affixed to an upstanding lever 11 which has the lower end pivotally connected to the vertical leg 6 of the bracket B for movement about a horizontal axis or pin 12 carried by an offset portion of a metal plate 13 as shown in dotted lines in Figure 2, the other portion of the plate bearing against one side of the upright or post A near the base of the vertical leg and in projecting manner so as to prevent the movement of the bracket transverse of the upright.

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Secured to the lever 11 intermediate its length is a flexible element or chain 14 which circles behind the upright from the side opposite plate 13 and the end of which is secured to plate 13 as at 15, this chain acting with the pawl lever and ratchet track to hold the lower end of the leg 6 against the face of the upright under pressure.

The face of the upright adjacent the bracket is provided with vertically spaced openings D which are engaged by a hand operable detent 16 carried by the lower end of leg 6 for the vertical support of said bracket on the upright.

For mounting the upright to the scaffold vertically adjustable steps 20 are provided which comprise a U-shaped brace 21 which partially encircles the upright and a pin 22 which interconnects the legs of this brace and completes a loose encirclement of A. Inwardly disposed teeth 23 are carried by the brace 21 on one side thereof and a horizontal foot receiving member 24, so constructed that the teeth 23 butt into the upright and support and maintain the step when downward pressure is exerted on the upper side of the foot member 24.

It can be seen that by operation of the chain and lever and the detent 16, the bracket is adjustable relative to the upright A thus staging the scaffold walking boards 3 at any desired height, and the steps adjustable to different positions relative to the bracket.

Having thus described and explained this invention what I claim is:

1. The combination with a vertical post having a plurality of spaced apertures along one face thereof, of a scaffold support mounted on said post for vertical adjustment therealong, said scaffold support comprising a bracket supported on said post for vertical movement and including a horizontal leg for supporting scaffold boards, a vertical leg arranged in parallel spaced relation with respect to said one face of said post and having the upper end fixedly secured to one end of said horizontal leg, a detent carried adjacent the lower end of said vertical leg for selectively engaging the apertures in said vertical post, a brace extending from said vertical leg above and spaced from said detent to said horizontal leg adjacent the other end of the latter and fixedly secured to said vertical and horizontal legs, an arcuate ratchet track positioned intermediate said vertical leg and brace and fixedly secured thereto, an upstanding lever having the lower end pivotally connected to the vertical leg of said bracket for movement about a horizontal axis, a flexible element extending about the other face of said post and having one end secured

to said post and having the other end secured to said lever intermediate its ends, and a pawl carried by said lever and engaging said ratchet track for holding said detent in a select one of said apertures.

2. The combination with a vertical post having a plurality of spaced apertures along one face thereof, of a scaffold support mounted on said post for vertical adjustment therealong, said scaffold support comprising a bracket including a horizontal leg for supporting scaffold boards, a vertical leg arranged in parallel spaced relation with respect to said one face of said post and having the upper end fixedly secured to one end of said horizontal leg, a U-shaped member slidably embracing said post and having its legs fixedly secured to said horizontal leg, a detent carried adjacent the lower end of said vertical leg for selectively engaging the apertures in said vertical post, a brace extending from said vertical leg above and spaced from said detent to said horizontal leg adjacent the other end of the latter and fixedly secured to said vertical and horizontal legs, an arcuate ratchet track positioned intermediate said vertical leg and brace and fixedly secured thereto, an upstanding lever having the lower end pivotally connected to the vertical leg of said bracket for movement about a horizontal axis, a chain extending about the other face of said post and having one end secured to said post and having the other end secured to said lever intermediate its ends, and a pawl carried by said lever and engaging said ratchet track for holding said detent in a select one of said apertures.

LOUIS M. POLAK, JR.

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