Sept. 27, 1938. M. PRAEGER 2,131,356

SCAFFOLD HORSE

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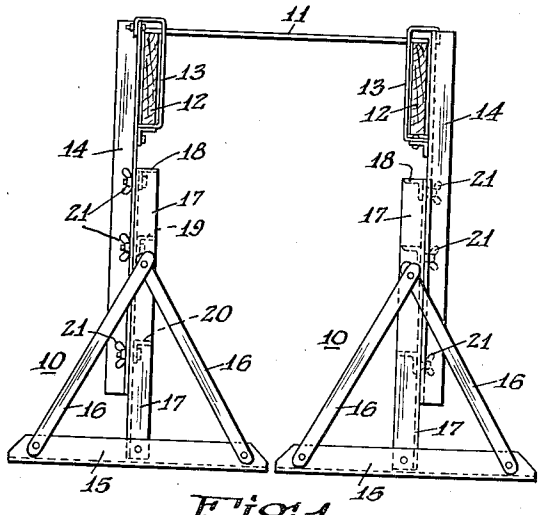


Fig. 1

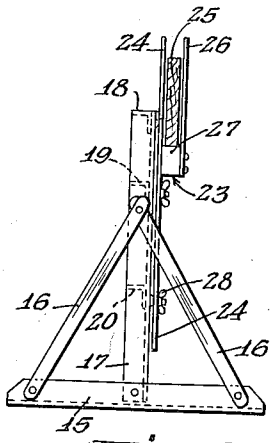


Fig. 2

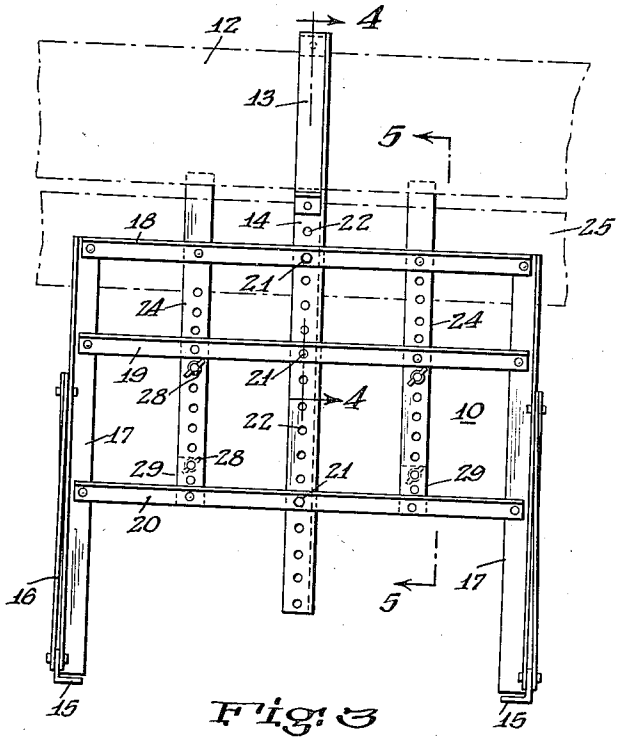


Fig. 3

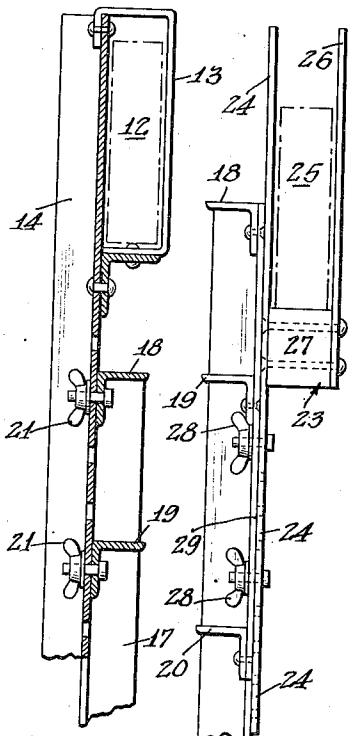


Fig. 4

Fig. 5

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SCAFFOLD HORSE

Melville Praeger, New York, N. Y.

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4 Claims. (Cl. 304—5)

This invention relates to scaffolding and more particularly relates to improvements in horses for scaffolding.

Among the objects of the present invention are to provide a novel scaffold horse which is adjustable for different positions in use; which is cheap, and simple to construct and operate; and which is rugged and serviceable.

These and further objects of the invention will become evident in the following description of a preferred embodiment as taken in connection with the drawing thereof, in which:

Figure 1 is an end view of two of the horses in position with scaffolding on the upper section.

Figure 2 is a view of the lower supporting section.

Figure 3 is a side view of the novel scaffolding.

Figure 4 is a cross-sectional view taken along 4—4 of Figure 3, centrally through the horse; and

Figure 5 is a cross-sectional view taken along 5—5 of Figure 3.

In Figure 1, two horses, 10, 10 are placed side by side with scaffolding 11 adjusted transversely of the beams 12, 12 supported in the horses 10. The beams or boards 12 are inserted in respective brackets 13 secured to vertical angle irons 14 adjustably attached to the horses 10 in a manner to be hereinafter described in more detail.

The horses 10 are essentially composed of angle irons or bars riveted or otherwise combined into a structural unit. The transverse base bars 15 are maintained by truss rods 16 which span the ends of bars 15 and an intermediate portion of the vertical or standard angle iron 17. The bottom of vertical bar 17 is fastened centrally of the transverse base bar 15.

Each horse 10 comprises two opposite base and standard bar combinations 15 to 17, as is evident from an inspection of the side view, Figure 3. A series of parallel cross-bars 18, 19 and 20 connect the end sections of the horse. Rivets are practical joining elements for the bars, although welding or other means are possible. The bars of the horse are preferably angle irons to impart ruggedness and strength to the unit.

A vertical supporting rod 14 is adjustably mounted centrally of the cross-bars 18, 19 and 20 by bolts having wing-nuts 21. A series of holes 22 are formed along bar 14 for permitting variable positioning of the bar with respect to the bolts 21. The bolts 21 are each passed through corresponding holes in the middle of cross-bars 18, 19 and 20. The top of bar 14 contains the bracket 13 for beam 12 as shown in Figure 1 and described above.

It is now evident how the height of beam 12 is controlled by adjusting the position of bar 14 in the cross-bars of the horse, 10. Figure 4 is a vertical cross-sectional view taken through Figure 3 along 4—4 and shows in enlarged view the details of the adjustable mounting for bar 14 with respect to the horse cross-bars. The bracket 13 is a suitable strip of metal riveted to vertical bar 14.

An important feature of the present invention resides in the intermediate supporting brackets 23 extending from the intermediate vertical bars 24, 24, adjustably fastened to cross-bars 18, 19 and 20. A beam 25 may be carried between the two bars 24 of a single horse at the respective brackets 23. Brackets 23 comprise an open top formed by a bar 26 spacedly mounted from bar 24, as shown in Figures 2 and 5, by block 27.

The bars 24 contain a plurality of spaced holes, which coact with the bolts 28 having wing-nuts for manual control. Both bars 24 are adjusted to the same height, and together carry the cross-beam 25 for the horse. Strips 29, secured between the lower cross-bars 19 and 20, carry the bolts 28 and support the vertical bars 24.

The sets of cross-beams 12 and 25 accordingly may be variably positioned in the scaffold horses of the invention, in a ready and simple manner. Modifications are possible in the construction of the horse which fall within the broader spirit and scope of the invention, as defined in the following claims.

I claim:

1. A scaffold horse comprising end supports, cross-bars carried between said supports, one above another, a bar having a plurality of holes, means on said cross-bars for coacting with the holes of said bar, whereby said bar is variably positionable on said horse in a vertical position, and a bracket secured at the top of said bar for carrying a cross-beam of the scaffold, further bars, arranged on opposite sides of said first mentioned bar for vertical movement and adjustably secured to said cross-bars for carrying a second cross-beam for the scaffold.

2. A scaffold horse comprising end supports, cross-bars carried between said supports, one above another, a bar having a plurality of holes, means on said cross-bars for coacting with the holes of said bar, whereby said bar is variably positionable on said horse in a vertical position, and a bracket secured at the top of said bar for carrying a cross-beam of the scaffold, further bars, arranged on opposite sides of said first mentioned bar, secured to said cross-bars for carrying a second cross-beam for the scaffold, said fur-

ther bars having a plurality of holes for permitting variable positioning thereof in a vertical direction with respect to the horse.

3. A scaffold horse comprising end supports, cross-bars carried between said supports, one above another, a bar having a plurality of holes, means on said cross-bars for coacting with the holes of said bar, whereby said bar is variably positionable on said horse in a vertical position, and a bracket secured at the top of said bar for carrying a cross-beam of the scaffold, further bars, arranged on opposite sides of said first mentioned bar, secured to said cross-bars for carrying a second cross-beam for the scaffold, said further bars having a plurality of holes, a strip for each further bar, secured between said cross-bars, bolts having wing-nuts carried by said strips for variably supporting said further bars on the horse.

4. A scaffold horse comprising end supports, cross-bars carried between said supports, one above another, a bar having a plurality of holes, means on said cross-bars for coacting with the holes of said bar, whereby said bar is variably positionable on said horse in a vertical position, and a bracket secured at the top of said bar for carrying a cross-beam of the scaffold, further bars, arranged on opposite sides of the first mentioned bar, secured to said cross-bars for carrying a second cross-beam for the scaffold, said further bars having a plurality of holes, a strip for each further bar, secured between said cross-bars, bolts having wing-nuts carried by said strips for variably supporting said further bars on the horse, a bracket carried at the top end of each further bar for supporting said second cross-beam.

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