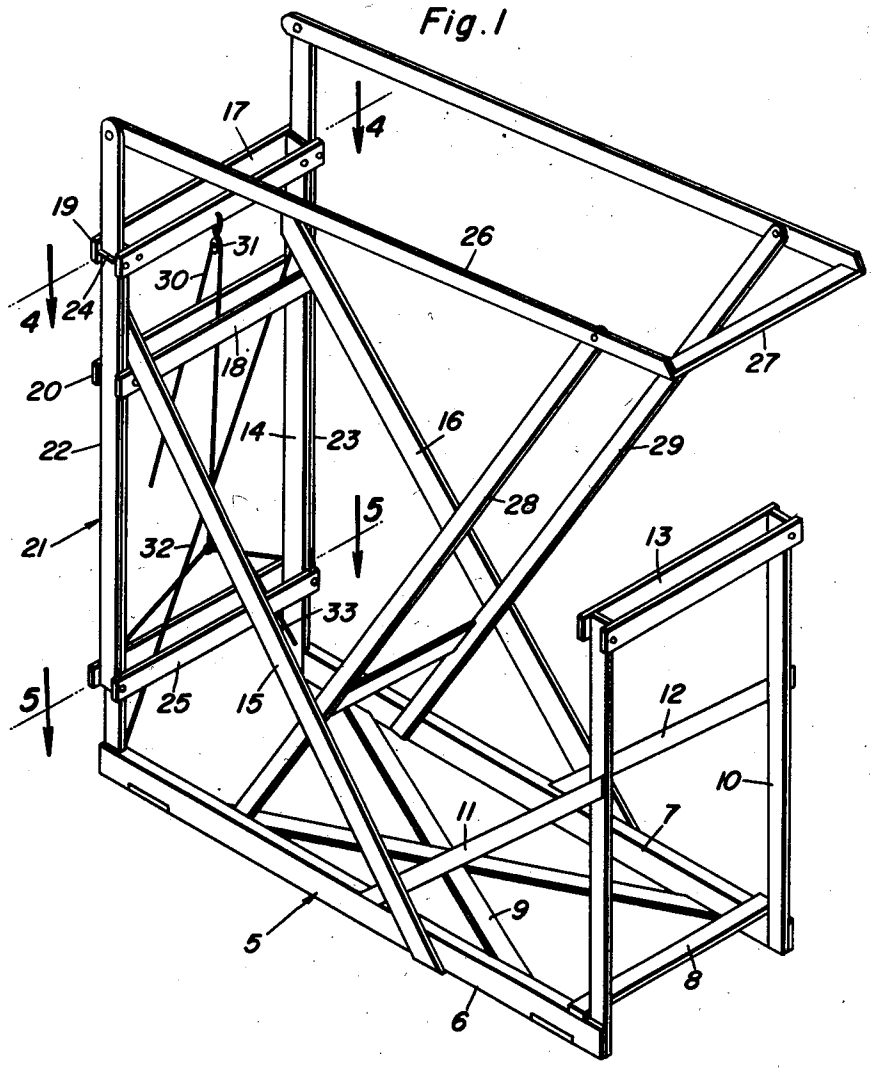
April 23, 1957 J. A. HAMMAGREN 2,789,869

HOIST FOR CEILING MATERIAL

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Fig. 1



Joel A. Hammagren
INVENTOR.

BY Thomas A. O'Brien and Harvey B. Jacobson
Attorneys

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Fig. 2

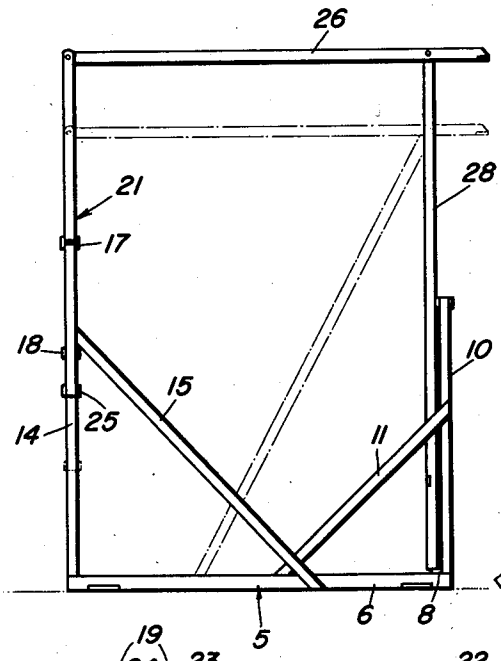
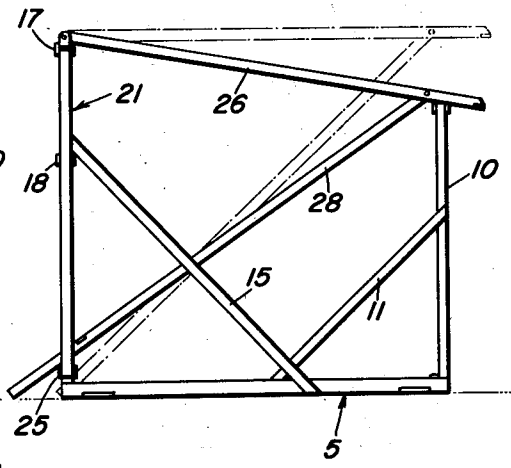


Fig. 3



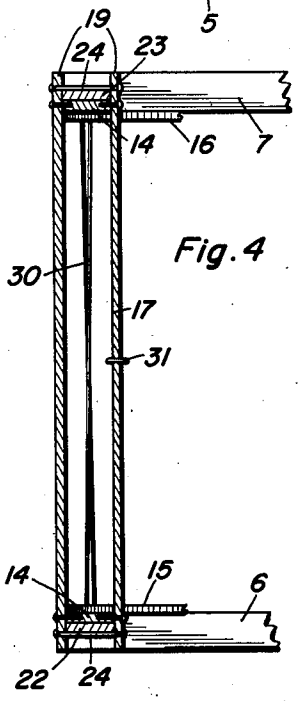


Fig. 4

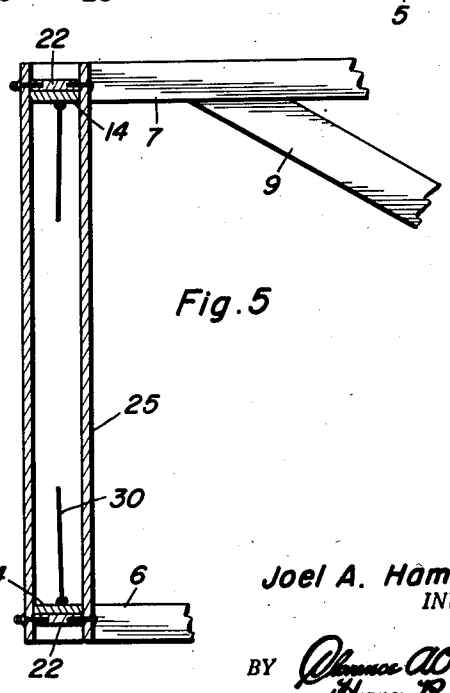


Fig. 5

Joel A. Hammagren
INVENTOR.

BY Thomas A. O'Brien and Harvey B. Jackson
Attorneys

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HOIST FOR CEILING MATERIAL

Joel A. Hammagren, Bend, Oreg.

Application March 30, 1955, Serial No. 497,867

1 Claim. (Cl. 304—29)

The present invention relates to new and useful improvements in hoists for raising and supporting wallboard or other sheet building material in position while nailing the same to a ceiling.

An important object of the invention is to provide a scaffold structure or frame having a work supporting platform slidably supported thereby and equipped with hoisting means to raise and lower the platform to move the sheets of material into nailing position to a ceiling.

Another object is to pivotally attach one end of the platform to a vertical hoisting frame for tilting the platform into a convenient position for loading the ceiling material thereon and providing the tilted end of the platform with pivoted legs which are used to raise the tilted end of the platform and to support the same in its raised position.

A further object is to provide a device of this character of simple and practical construction, which is efficient and reliable in operation, strong and durable, relatively inexpensive to manufacture and otherwise well adapted for the purpose for which the same is intended.

These together with other objects and advantages which will become subsequently apparent reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming a part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a perspective view;

Figure 2 is a side elevational view showing the platform in raised position;

Figure 3 is a side elevational view showing the platform in lowered loading position; and

Figures 4 and 5 are enlarged sectional views taken respectively on the lines 4—4 and 5—5 of Figure 1.

Referring now to the drawing in detail, wherein for the purpose of illustration, I have disclosed a preferred embodiment of my invention, the numeral 5 designates a rectangular-shaped base frame generally and which includes a pair of spaced apart parallel bottom rails 6 and 7 adapted to rest on a floor and rigidly connected to each other by a cross-bar 8 and an X-brace 9.

At one end of the base frame is an upright rectangular-shaped platform supporting frame 10 provided with inclined braces 11 and 12 and a double cross-bar 13 at the upper end of the frame 10.

A rectangular-shaped upright stationary hoist frame 14 is secured to the other end of the base frame and is also provided with inclined braces 15 and 16 and a double cross-bar 17 at the upper end of the hoist frame and a double cross-bar 18 below the upper cross-bar. The ends of the upper and lower double cross-bars 17 and 18 project outwardly at the opposite sides of the stationary hoist frame to form pairs of spaced apart parallel upper and lower guide rails 19 and 20 for a vertically slidable hoist frame 21 which includes a pair of vertical side frame members 22 and 23. A retaining

pin 24 is connected to the upper guide rails 19 outwardly of the slidable frame members 22 and 23 to hold the latter slidably in the guide rails. A double cross-bar 25 connects the lower side portions of the slidable frame members to each other.

A rectangular-shaped platform frame 26 is pivotally connected at one end to the upper ends of the pair of slidable frame members 22 and 23 for vertical swinging movement of the free end of the platform and which overlies and is adapted to rest on top of the platform supporting frame 10 in an inclined position. The free end of the platform is braced by a cross-bar 27 and a pair of legs 28 and 29 are pivotally connected at their upper ends to the sides of the platform, while the lower ends of the legs are free and adapted to rest on the cross-bar 8 of the base frame to support the platform in a horizontal raised position.

A hoisting rope or cable 30 is attached at its lower end to the lower double cross-bar 25 of the slidable hoist frame and the rope extends upwardly over a pulley 31 attached to the upper double cross-bar 17 of the stationary hoist frame to raise the slidable hoist frame 21 and platform frame 26. The slidable hoist frame is lowered by gravity. Cross-wires 32 and 33 also brace the stationary hoisting frame 21.

In the operation of the device, the legs 28 and 29 are swung toward the stationary hoist frame into the position shown by full lines in Figure 3 to lower the free end of the platform to rest in an inclined position on top of the platform supporting frame 10 to conveniently load a sheet of ceiling material onto the platform. The legs 28, 29 may then be swung toward the frame 10 into an inclined position and rested on the floor which raises the free end of the platform into a hoisting position, as shown full lines in Figures 1 and 3 by dotted lines in Figure 2, and at the same time, the sliding hoist frame 21 may be raised by the rope 30 to raise and level the platform 26 into a desired elevated position for supporting the ceiling material in a position for conveniently nailing the sheet of material to the ceiling. The legs 28, 29 may also be swung toward the frame 10 into vertical position to further raise the free end of the platform 26 to a higher position and the sliding hoist frame 21 raised higher by the rope 30 to level the platform 26, all as shown in full lines in Figure 2, whereby to raise the platform 26 to a higher position for nailing sheets of material to a higher ceiling. The free end of the platform is supported in its higher position by using the legs 28 and 29 as props which rest on the cross-bar 8, as shown by full lines in Figure 2.

The foregoing is considered as illustrative only of the principles of the invention. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention as claimed.

What is claimed as new is as follows:

A hoisting and supporting scaffold for sheet material comprising a rectangular base frame, a vertically slidable hoist frame including a vertical portion and a platform pivoted at one end to the upper portion of said vertical portion for vertical pivotal movement of the platform, a vertical guide frame at one end of the base frame for the vertical portion of the hoist frame, flexible hoisting means for the hoist frame and an upstanding support at the other end of the base frame and on which the adjacent end of the platform is adapted to rest in an inclined work loading position, a crossbar on said other end of the base frame, a pair of

cross connected legs on the free end of the platform, said legs being pivoted to said free end and higher than said support for swinging onto said crossbar to prop said free end above said support, said legs being swingable off said crossbar and into said vertically slidable frame to lower said free end onto said support, and a second crossbar on said vertically slidable frame supporting said legs when the legs are swung into the vertically slidable frame.

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