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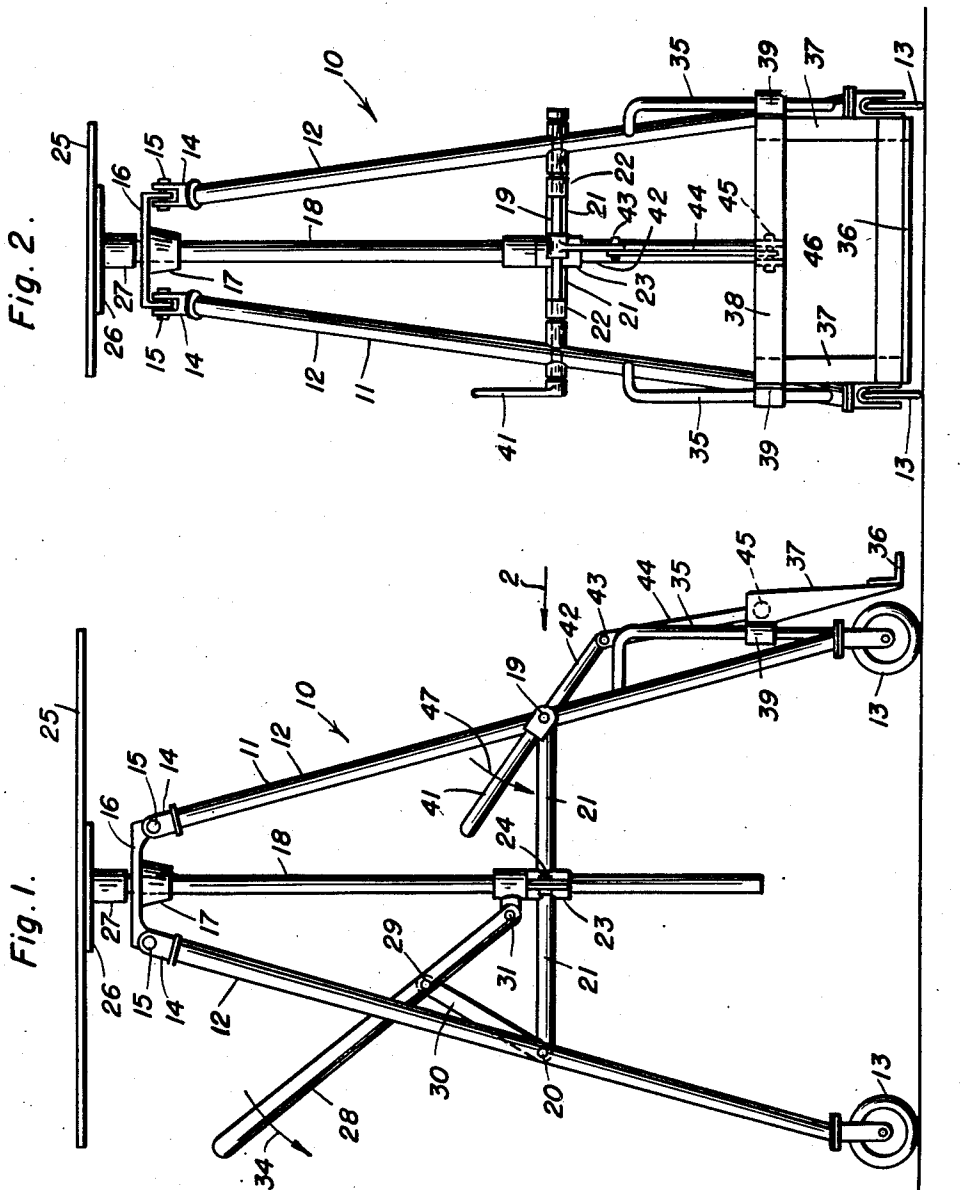
F. J. ARNOULD

2,490,166

DEVICE FOR INSTALLING WALL AND CEILING BOARD

Filed Aug. 8, 1947

2 Sheets-Sheet 1



Inventor

Firmin J. Arnould

By

Clarence W. Brion
and Harvey B. Jacobson
Attorneys

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F. J. ARNOULD

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2 Sheets-Sheet 2

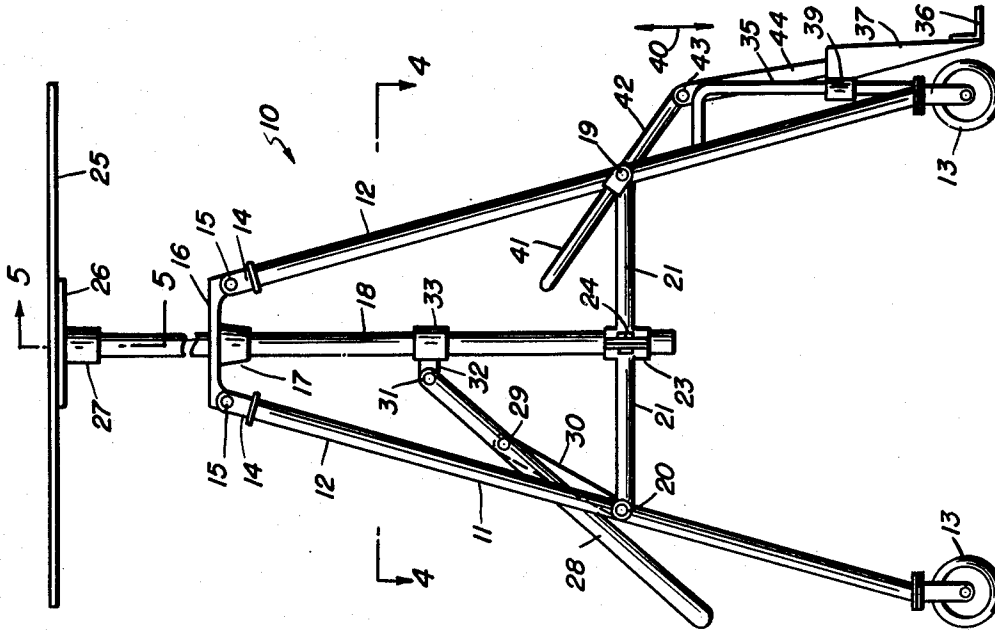


Fig. 3.

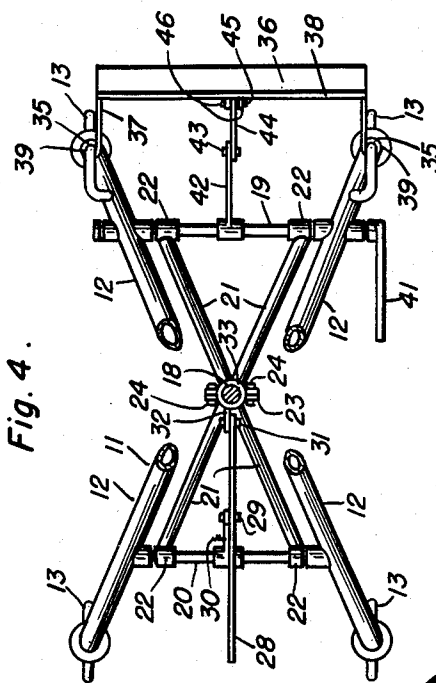


Fig. 4.

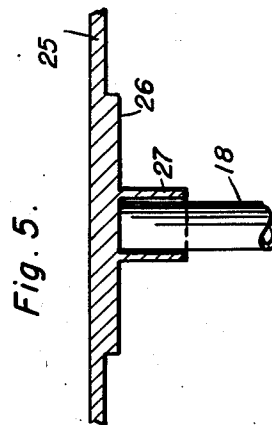


Fig. 5.

Inventor

Firmin J. Arnould

By

Clarence A. O'Brien
and Harvey B. Jacobson
Attorneys

UNITED STATES PATENT OFFICE

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DEVICE FOR INSTALLING WALL AND
CEILING BOARD

Firman J. Arnould, Los Altos, Calif.

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2 Claims. (Cl. 304-9)

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This invention relates to new and useful improvements and structural refinements in devices for installing wall and ceiling board, more specifically, plaster board, insulating sheets or panels, or the like, and the principal object of the invention is to provide a device of the character herein described, which may be conveniently and effectively employed for supporting the board while it is being installed, so that the difficult and tedious nature of such installation may be substantially simplified.

A further object of the invention is to provide a device for installing wall and ceiling board which may be quickly and easily adjusted in accordance with various working conditions.

Another object of the invention is to provide a device for installing wall and ceiling board which is simple in construction, convenient in use, and which may be readily disassembled so as to facilitate portability from one site to another.

An additional object of the invention is to provide a device for installing wall and ceiling board which will readily lend itself to economical manufacture and which is otherwise well adapted for the purpose for which it is intended.

With the above more important objects in view and such other objects as may become apparent as this specification proceeds, the invention consists essentially of the construction and arrangement of parts as shown in the accompanying drawings in which:

Figure 1 is a side elevation of the invention showing the board receiving platform thereof in the lowered position.

Figure 2 is an elevational view, taken substantially in the direction of the arrow 2 in Figure 1.

Figure 3 is a side elevational view, substantially similar to that shown in Figure 1, but illustrating the board receiving platform in an upraised position.

Figure 4 is a cross sectional view, taken substantially in the plane of the line 4-4 in Figure 3, and;

Figure 5 is a cross sectional view, taken substantially in the plane of the line 5-5 in Figure 3.

Like characters of reference are used to designate like parts in the specification and throughout the several views.

Referring now to the accompanying drawings in detail, the invention consists of a device for installing wall and ceiling board, the same being designated generally by the reference character 10 and embodying in its construction an upright framework 11 consisting of a plurality of upwardly convergent legs 12.

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Swivel casters 13 are provided at the lower end of the legs 12, while the upper end portions of the legs form what may be referred to as forks 14 which are separably connected by suitable pins or bolts 15 to suitable downturned ears or lugs provided on a horizontally disposed plate 16.

It will be noted that this plate is provided on the underside thereof with a boss 17 and that it is formed with a suitable bore or aperture so as to slidably accommodate a vertically extending shaft 18, as will be clearly apparent.

Rotatable rods or shafts 19 and 20 are each journaled in a pair of the legs 12, more specifically, intermediate the length of the legs, and a series of tie rods 21, arranged in a substantially X-shaped formation, are connected to the shafts 19, 20 as will be presently described.

The outer extremities of the rods 21 are provided with suitable sleeves or collars 22 which are rotatably positioned on the shafts 19, 20, while the inner extremities of the rods 21 are secured to a pair of complementary half sections of a bearing block 23.

The half sections of the bearing block are separably connected together as indicated at 24, and the bearing block provides what may be referred to as a slide bearing for the lower end portion of the aforementioned shaft 18.

A board receiving plate or platform 25, formed integrally on the underside thereof with a reinforcement 26 and with a bored boss 27, is removably and rotatably positioned on the upper end portion of the shaft 18, the purpose of this arrangement being hereinafter more fully explained.

The shaft 18, together with the platform 25, may be raised and lowered as desired, this being accomplished by means of an actuating lever 28 which is pivoted intermediate of its length as at 29 to one end of a link 30. The remaining end portion of the latter, in turn, is pivotally mounted on the aforementioned shaft 20, while one end of the lever 28 is pivoted as at 31 to a lug 32 formed on a collar 33 which, in turn, is rigidly secured medially the length of the shaft 18.

Accordingly, when the invention is placed in use, a plaster board, or the like, may be positioned upon the platform 25, whereupon by simply depressing the lever 28 in the direction of the arrow 34, the platform, together with the plaster board, may be raised and upheld in the upraised position as indicated in Figure 3, while the plaster board is being secured to the ceiling.

Means are also provided for supporting the

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plaster board during the installation thereof on a wall, said means comprising a pair of guide rods 35 configured substantially as shown and secured to two of the aforementioned legs 12.

It will be noted that the guide rods 35 are disposed vertically in a spaced parallel relation, and a board receiving carrier, assuming the form of a substantially L-shaped channel 36, is provided with a pair of upstanding brackets 37 which, in turn, are connected together by a transversely extending strap 38 forming a pair of guide sleeves 39. These sleeves are slidably positioned on the guide rods 35 and by virtue of this arrangement, the carrier channel 36 may be lowered and raised as indicated by the arrow 40.

The raising and lowering of the carrier channel 36 is effected by a means of a further actuating lever 41 secured to the aforementioned shaft 19, the latter also carrying a crank 42 which is pivotally connected as at 43 to a link 44. This link is, in turn, pivoted as at 45 to a pair of lugs or brackets 46 secured to the aforementioned strap 38.

Accordingly, a plaster board may be positioned upon the carrier channel 36, whereupon by simply actuating the lever 41 in the direction of the arrow 47, the carrier channel, together with the board, may be raised as desired, as to elevate the board to the appropriate position and thereby facilitates its installation on the wall.

It should be also explained that when the board is being installed on the ceiling, the rotatability of the platform 25 with respect to the shaft 18 will facilitate appropriate adjustment whereby the board may be lifted upwardly and at the same time, rotated as required, so as to fit properly in its predetermined position on the ceiling.

Needless to say, the platform 25 as well as the carrier channel 36 will be returned to their lower position by virtue of gravity, as soon as the application of force upon the respective levers 23 and 41 is relieved.

Finally, it should be explained that the provision of the casters 13 will, of course, facilitate the maneuvering of the entire device in the room, or the like, where the installation of the board is being undertaken, and after the installation is completed, the entire device may be speedily and easily disassembled by simply removing the platform 25 from the shaft 18 and similarly withdrawing the shaft from the framework 11, as will be clearly apparent. Furthermore, the plate

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16 may be disconnected from the legs 12 by withdrawing the pins or screws 15, and the legs may be separated into pairs by disconnecting the fastening elements 24 of the bearing block 23.

It is believed that the advantages and use of the invention will be clearly apparent from the foregoing disclosure and accordingly, further description thereof at this point is deemed unnecessary.

While in the foregoing there has been shown and described the preferred embodiment of this invention it is to be understood that minor changes in the details of construction, combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as claimed.

What I claim as my invention is:

1. A device for installing wall and ceiling board, comprising in combination, an upright framework comprising a plurality of upwardly convergent legs, a horizontal plate securing the upper ends of said legs together, casters mounted at the lower ends of said legs, a vertical shaft extending slidably through said plate, a series of tie rods secured intermediate the length of said legs and providing a slide bearing for the lower end portion of said shaft, a board receiving platform rotatably mounted at the upper end of said shaft, a link pivoted to said framework, an actuating lever pivoted intermediate its length to said link, one end of said lever being operatively connected to said shaft, a pair of spaced parallel guide rods secured to two of said legs, a board receiving carrier slidable on said rods, and a further lever pivoted to said framework and operatively connected to said carrier whereby the raising and lowering of said carrier may be effected.

2. The device as defined in claim 1, in which said carrier comprises an L-shaped channel and a pair of guide brackets secured thereto, said brackets being slidable on said rods.

FIRMIN J. ARNOULD.

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The following references are of record in the file of this patent:

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