April 27, 1926. 1,582,147

J. C. STANLEY

WALL BOARD SUPPORT

Filed July 23, 1925

Fig. 1.

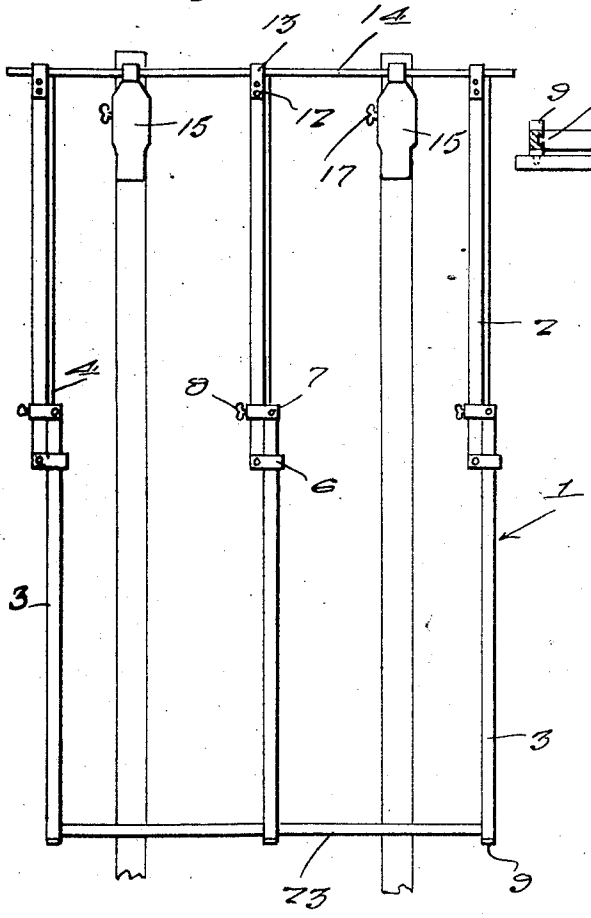


Fig. 3.

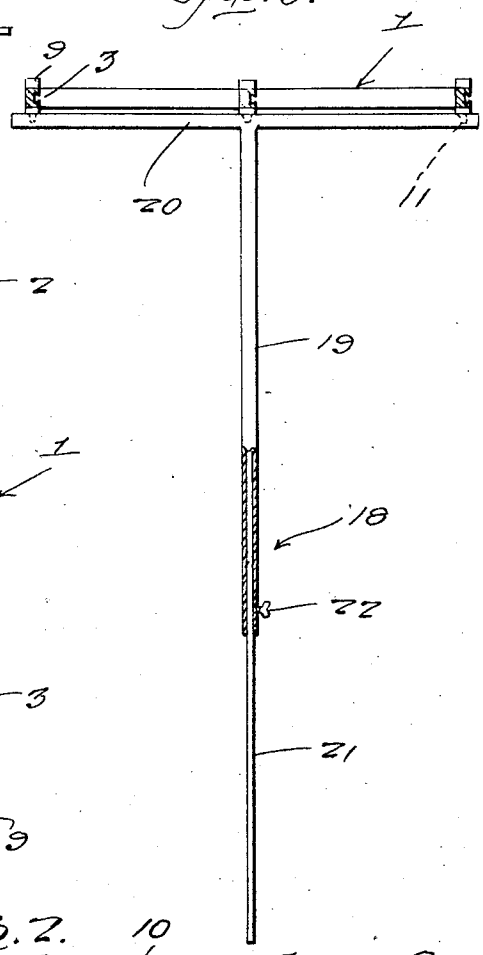


Fig. 2.

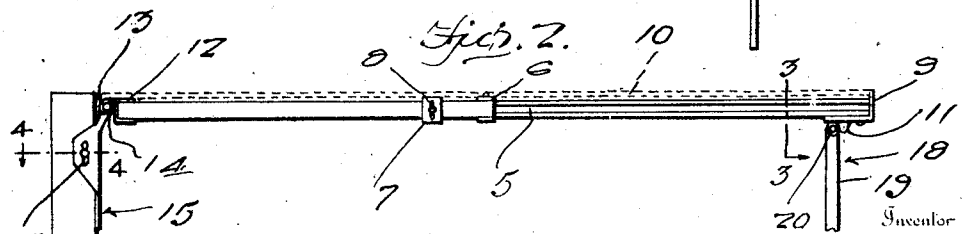
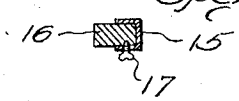


Fig. 4.



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UNITED STATES PATENT OFFICE.

JOHN C. STANLEY, OF DENVER, COLORADO.

WALL-BOARD SUPPORT.

Application filed July 23, 1925. Serial No. 45,669.

To all whom it may concern:

Be it known that I, JOHN C. STANLEY, a citizen of the United States, residing at Denver, in the county of Denver and State of Colorado, have invented certain new and useful Improvements in a Wall-Board Support, of which the following is a specification.

This invention relates to an improved apparatus which may be referred to as a support for wall boards.

Considerable difficulty is ordinarily experienced in the handling and nailing of wall board and the like to studding. This is due, in one respect, to the fact that the pieces are of varying lengths according to the circumstances confronted, and where it is necessary to utilize a long piece, it is frequently necessary to have the services of an assistant in holding one end of the piece while the nailing is started. This being a comparatively expensive proposition, I have evolved a novel apparatus wherein the wall board, such as used upon the ceiling, may be placed upon a suitably supported vertically swinging frame and maintained against the studding while it is being nailed, thus requiring the services of a single person only.

Briefly, the apparatus comprises an adjustable frame upon which the wall board is placed, there being means whereby one end of this frame may be pivotally connected to the vertical studs, thus permitting the frame to be tilted downwardly to a vertical position to permit the wall board to be placed thereon, after which the frame is swung up and propped in a horizontal position to hold the board in place while it is nailed.

The features and advantages derived from a structure of this kind will become more readily apparent from the following detailed description.

In the accompanying drawings forming a part of this application and in which like numerals are employed to designate like parts throughout the same:

Figure 1 is a view showing the frame attached to the studding and hanging down in a vertical state.

Fig. 2 is a side elevational view showing the frame swung up to horizontal operative position.

Fig. 3 is a view taken approximately upon the plane of the line 3—3 of Fig. 2, showing the prop which is used.

Figure 4 is a cross section taken on the line 4—4 of Figure 2.

As before stated, the apparatus comprises a frame which is broadly represented by the reference character 1. This frame is composed of extensible sections, one section of which embodies bars 2 slidably connected with the bars 3 on the other section. The bars 2 are preferably provided with dovetail tongues 4 fitting into correspondingly shaped grooves 5 in the complemental bars. The adjacent overlapped ends of the bars are provided with connecting loops 6 and 7 respectively, the loops 7, carried by the bars 3 being provided with thumb screws 8, whereby the bars may be adjusted to and held in any adjusted position.

Small angle brackets 9 are fastened to the outer ends of the bars 3 and it will be noted from Fig. 2 that the vertical portions of the same project slightly above the surface of the bars to serve as rests for one edge of the wall board represented by the reference character 10. Also as shown in Fig. 2, these brackets 9 are provided with studs 11 on the under side to serve a purpose to be hereinafter described.

On the outer end of the bars 2 are U-shaped clips 12 provided with attaching hooks 13. These hooks are adapted to be detachably connected with a horizontal rod 14 carried by clamps 15. As shown more plainly in Fig. 2 these clamps are of channel-shaped cross section and are adapted to fit upon the vertical side wall studs 16. Thumb screws 17 may be employed for this purpose. By preference the clamps 15 will be slidable upon the rod 14 so that they may be adjusted toward and from each other to accommodate the studding.

For supporting the frame in horizontal position I employ a prop represented generally by the reference character 18. This comprises a T-shaped member embodying a vertical standard 19 and a cross head 20. These are in the forms of pipes and an extensible leg 21 is telescopically fitted into the standard and held in different positions by the thumb screw 22. Referring again to the frame, I may state, that a connecting rod 23 may be employed between the outer ends of the bars 3.

This connecting rod, however, is not essential and the extensible elements formed by the bars 2 and 3 may, in some instances,

be separate and independent and simply hooked over the rod 14 when the latter is disposed close to the ceiling.

The improved apparatus is used as follows:—

The two clamps 15 are fastened upon the vertical studs 16 close to the ceiling of the room. This supports the rod 14 in a position to serve as a hanger for one end of the frame. Now, the hooks 13 are engaged over the hanger rod and the frame is allowed to drop down to an inclined position. The frame is adjusted to fit the length of the wall board to be fastened in place, and then the board is laid upon the top of the frame with one end of the board abutting the projecting ends of the hanger brackets 9. Then the frame with the board thereon is swung up and the prop 18 is placed beneath the same as shown in the drawing. In doing this, the cross head 20 is engaged in back of the lugs 11 and the prop extended to maintain the frame in the proper position. Now, the board may be readily nailed in place and all of this may be accomplished by a single person.

The advantages and features of an instrument of this kind will doubtless be apparent to those skilled in the art to which the invention relates. For this reason, a more lengthly description is deemed unnecessary.

While the preferred embodiment of the invention has been shown and described, it is to be understood that minor changes coming within the field of invention claimed may be resorted to if desired.

Having thus described my invention, what I claim as new is:—

1. In an apparatus of the class described, a hanger rod, means for supporting the same, a frame provided at one end with hooks adapted to fit over the rod, angle brackets at the opposite end of the frame, said angle brackets embodying extensions adapted to serve as stops for an adjacent end of a wall board, lugs carried by said brackets, and a prop including a cross head adapted for engagement with said lugs.

2. A wall board handling apparatus and support of the class described, comprising a horizontal hanger adapted to be detachably connected to side wall studding in close proximity to the ceiling, a lifting and supporting frame for the board adapted to be hingedly connected at one end to said hanger and to be disposed in spaced parallelism with said ceiling, and a hoisting prop for supporting the swingable end of said frame in operative position.

3. In an apparatus of the class described, a hanger rod adapted to be disposed in a horizontal position in close proximity to a ceiling, a pair of studding clamps slidably mounted upon said rod and adapted for detachable connection with studding for supporting said rod, a longitudinally extensible frame provided at one end with suspension hooks detachably and hingedly connected to said rod, angle brackets at the opposite swingable end of the frame constructed to provide stops for engagement with an adjacent end of the wall board, lugs carried by the under side of said brackets, and a separate and independent hoisting and supporting prop including a cross head for detachable engagement with said lugs.

4. An apparatus for handling and supporting wall boards in close proximity to a ceiling to facilitate nailing, said apparatus comprising a hanger rod adapted for horizontal disposition in close proximity to the ceiling, a pair of clamps slidably mounted upon said rod and adapted to be connected with vertical side wall studding, a frame detachably and hingedly connected to said rod, said frame being adapted for reception of the wall board, and means for hoisting and maintaining the frame in supporting position.

In testimony whereof I affix my signature.

JOHN C. STANLEY.