

Sept. 25, 1928.

A. AUSTIN

1,685,144

ELEVATOR AND SUPPORT FOR WALL BOARDS AND THE LIKE

Filed April 14, 1927

2 Sheets-Sheet 1

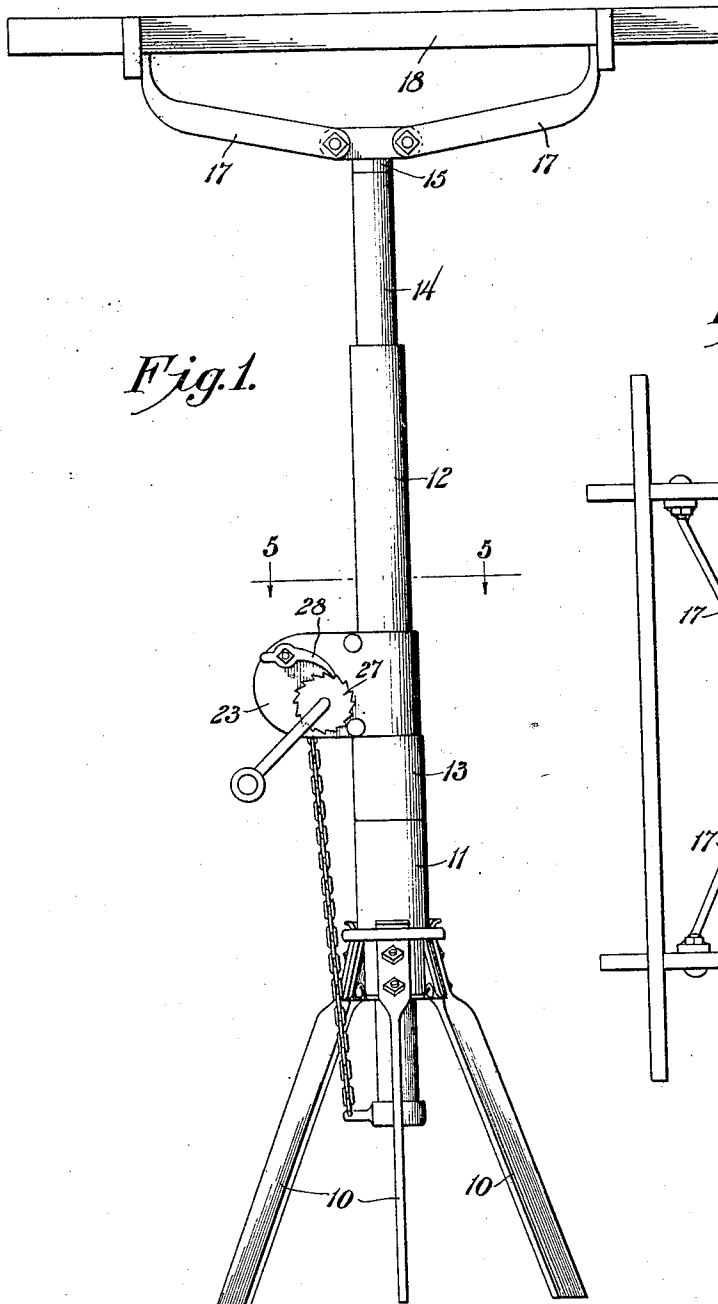


Fig. 1.

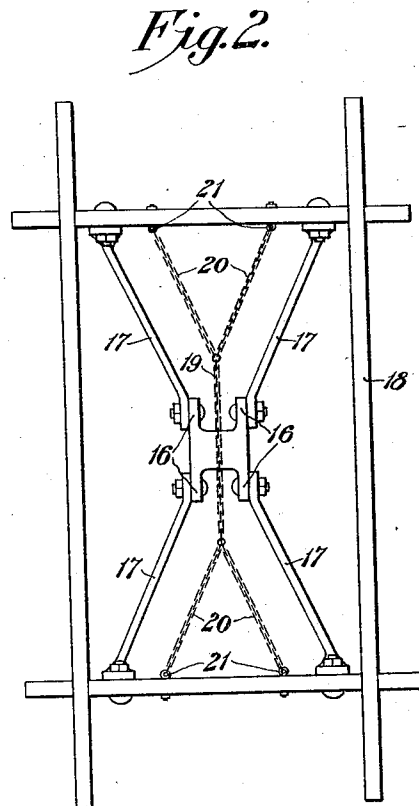


Fig. 2.

Witnesses
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2 Sheets-Sheet 2

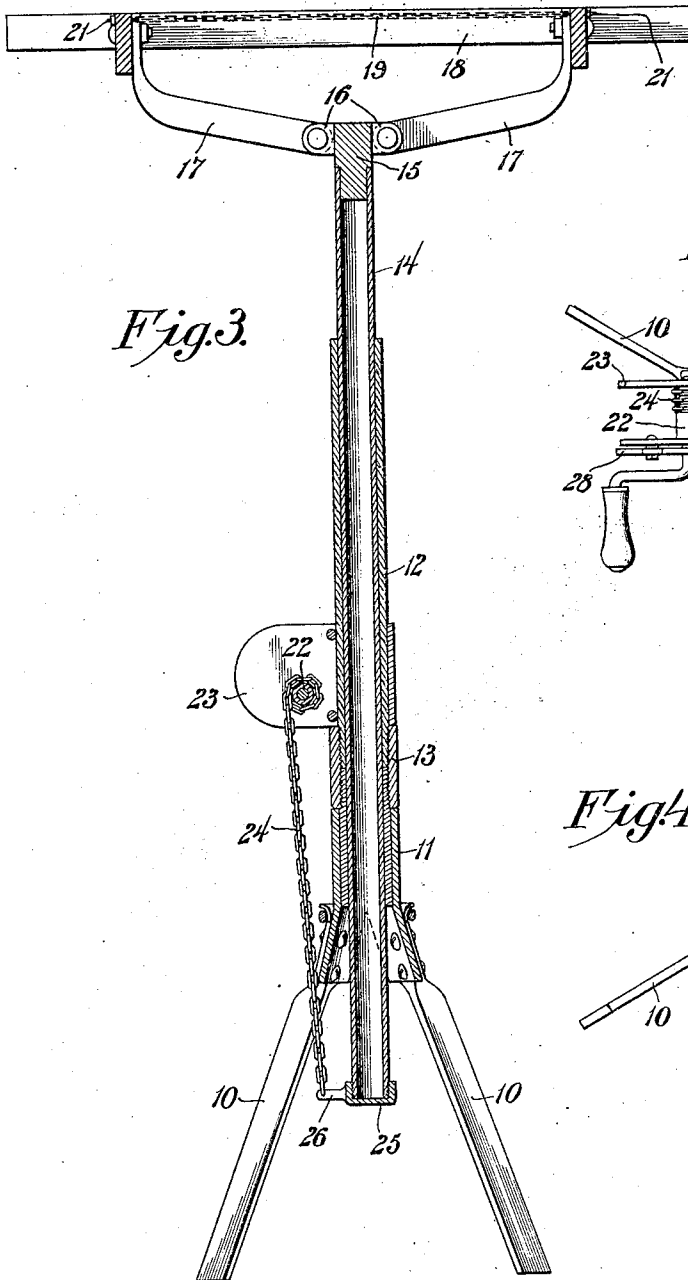


Fig. 3.

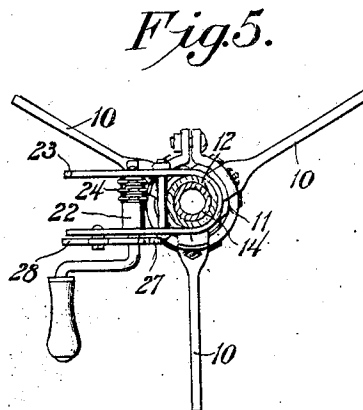


Fig. 5.

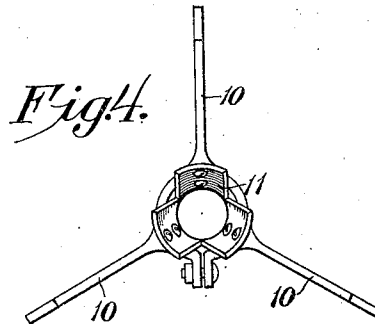


Fig. 4.

Witnesses

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UNITED STATES PATENT OFFICE.

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ELEVATOR AND SUPPORT FOR WALL BOARDS AND THE LIKE.

Application filed April 14, 1927. Serial No. 183,816.

My invention aims to provide an improved elevator or lifter and support, particularly adapted for the application of wall-boards to ceilings.

5 One of the main objects of my invention is to provide an improved lifter and support that will enable a single carpenter to apply wall-board with great ease and despatch to ceilings.

10 Other objects and advantages of my invention will appear in the specification, when considered in connection with the illustrative embodiment thereof shown in the accompanying drawings, in which:

15 Figure 1 is a side elevation of an elevator and support embodying my invention;

Figure 2 is a top plan view of the supporting frame shown in Figure 1;

20 Figure 3 is a central longitudinal sectional view of the device shown in Figure 1;

Figure 4 is a bottom plan view of the base or pedestal shown in Figures 1 and 3; and

Figure 5 is a cross sectional view taken on the line 5—5 of Figure 1.

25 Referring particularly to the drawings, I have there shown the preferred form of my elevator and support carried on a suitable base, preferably formed by securing three legs 10 to split and outwardly flared ends of a piece of ordinary tubing 11.

30 Telescoped and removably mounted within the tube 11, I have shown a tubular extension 12 made of two pieces of pipe joined by a coupling 13, which serves as a shoulder to rest on top of the tube 11 (Figures 1 and 3). This tubular extension is adapted to receive a standard 14, also conveniently made of tubing. In the upper end of the standard, I have shown a plug 15, having integral ears 16 to which brackets or supporting arms 17 are secured, each preferably by a single bolt (Figure 2).

40 Carried by the brackets or supporting arms 17 is a frame 18, suitably made of four wooden strips. The frame 18 is made so as to support pieces of commercial wall board, and is constructed and arranged to tilt or yield slightly about pivots to lift the wall board into position when the ceiling is slanting or somewhat irregular, and to extend at right angles to the standard 14 when the ceiling is horizontal.

55 I find that it is desirable, although not indispensable, to connect the opposite end pieces of the frame 18 by a bracing chain 19, shown in Figure 2 as having branched ends

20 secured by eye bolts 21 to these pieces near their bolted connections with the arms 17. The chain is preferably stretched longitudinally across the frame about on a level with the top thereof, and is adapted to support the middle of the wall board to prevent it from sagging.

To raise and lower the frame 18 with a piece of wall board on it, I have shown a 65 winding drum 22 (Figures 1, 3 and 5) in the form of a windlass journaled in a U-shaped, sheet metal clamp 23 bolted around the tubular extension 12 above the coupling 13. A rope or chain 24 is wound on the windlass 70 and operatively secured to the lower end of the standard 14. Herein, a cap 25, having a lateral arm 26, is screwed on the end of the tube 14 to provide an offset connection for the chain, so that it will pull more 75 nearly vertically.

To lock and hold the frame in any adjusted position, I have shown on the drum shaft, a ratchet wheel 27 and a dog 28 (Figure 1). This permits the carpenter to 80 vate a board to nailing position, and then devote his whole attention to driving the nails. Moreover, he can operate the windlass without climbing down from the usual workhorse, because it is high enough to be 85 within easy reach.

From the foregoing description, it is clear that my elevator and support eliminates the necessity for a helper to assist in lifting and holding boards in place and, consequently, 90 cuts down the cost of labor. Further it enables a carpenter to give his whole attention to setting the board and nailing it properly. It eliminates waste due to breakage because the frame affords a stable support for the 95 boards, and prevents them from falling. Moreover, the device can be made at a very low cost, and can be manipulated by an ordinary unskilled laborer.

Having thus described one embodiment of 100 my invention with the understanding that it is not limited thereto, what I claim and desire to secure by Letters Patent is:

1. A device for elevating wall boards and the like to ceilings and supporting them in place to be nailed, comprising, in combination, a base, a tubular standard telescopically mounted on the base, a plug in the top of the tubular standard, a plurality of outwardly extending brackets secured to the 110 plug, a horizontal and substantially oblong open work frame carried by said brackets,

and mechanical means to raise said standard.

2. In a device for elevating wall boards and the like to ceilings and supporting them in place ready to be nailed; a pedestal comprising a tubular portion having a slitted lower end; the slitted portions being bent outwardly at an angle to the axis of said tubular portion; legs secured to the bent portions; a standard telescoped within the tubular portion; means for elevating the standard; and a frame yieldably connected to the standard.

3. A support for holding wall boards in

place ready to be nailed to a ceiling comprising, in combination, a base member; a tubular standard adjustably supported on the base member; an open rectangular frame supported on the tubular standard; a yieldable connection between the open frame and the standard; and chains secured to some of the opposite sides of said frame to support the boards therebetween.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature.

AIN AUSTIN.