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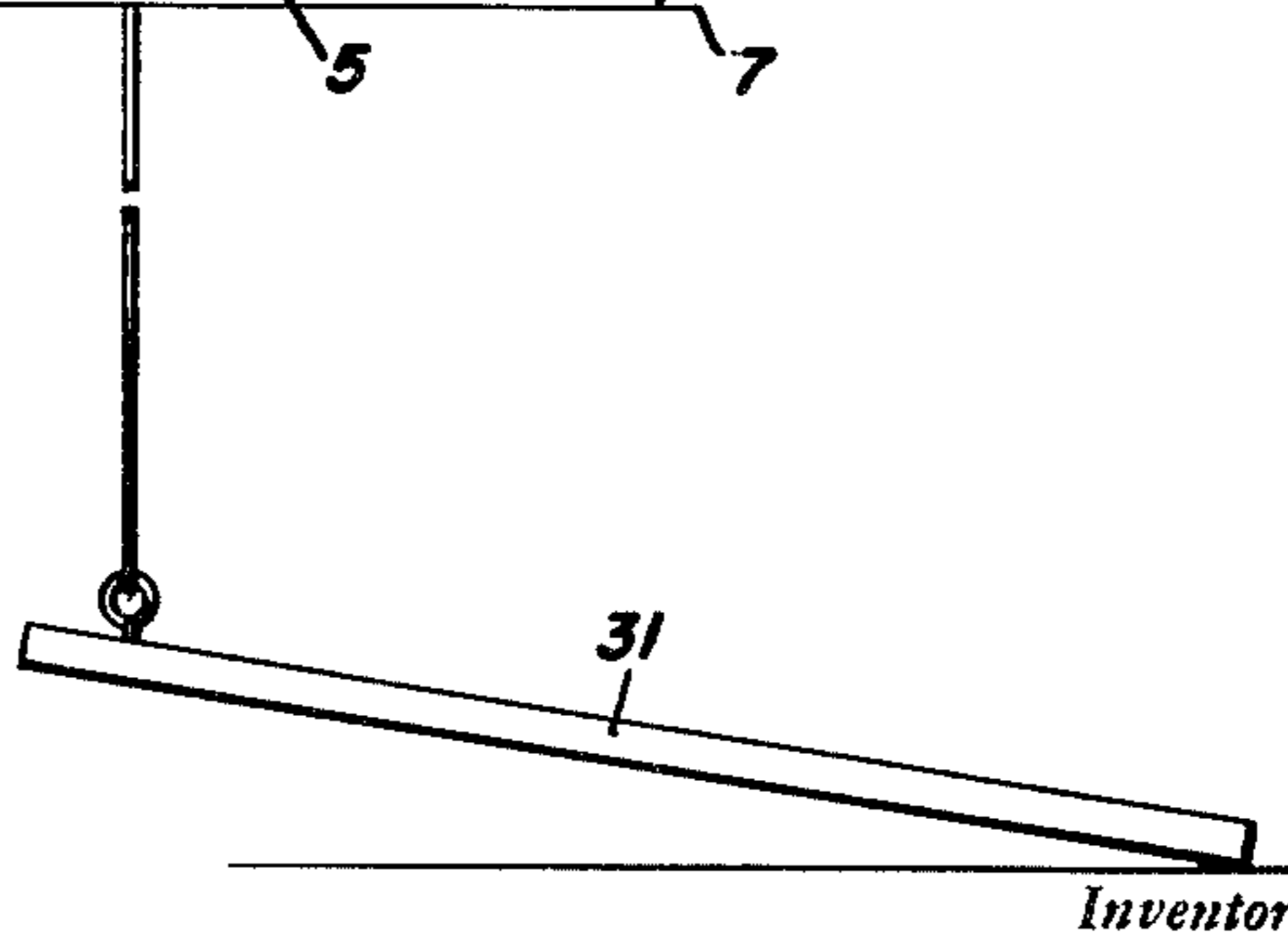
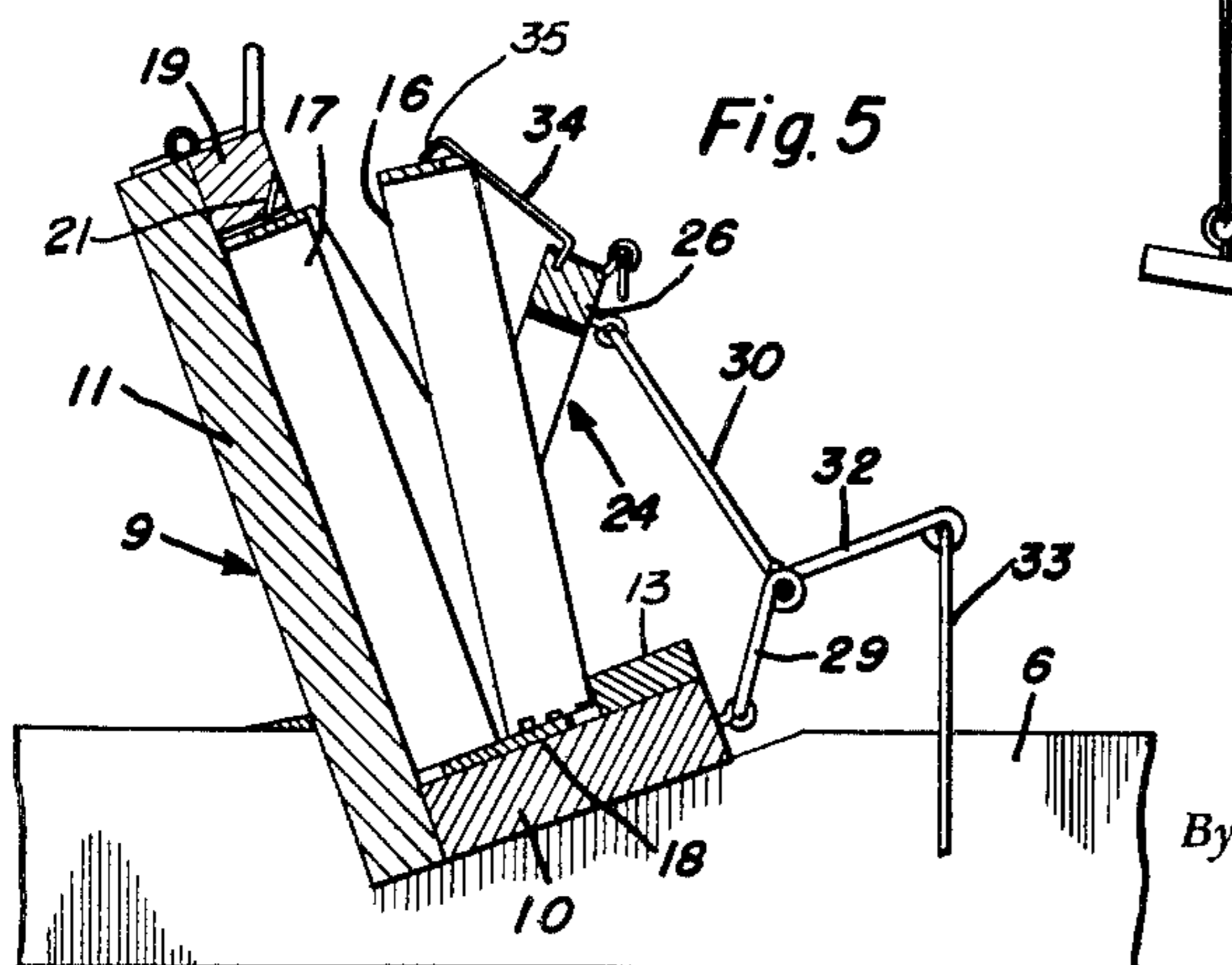
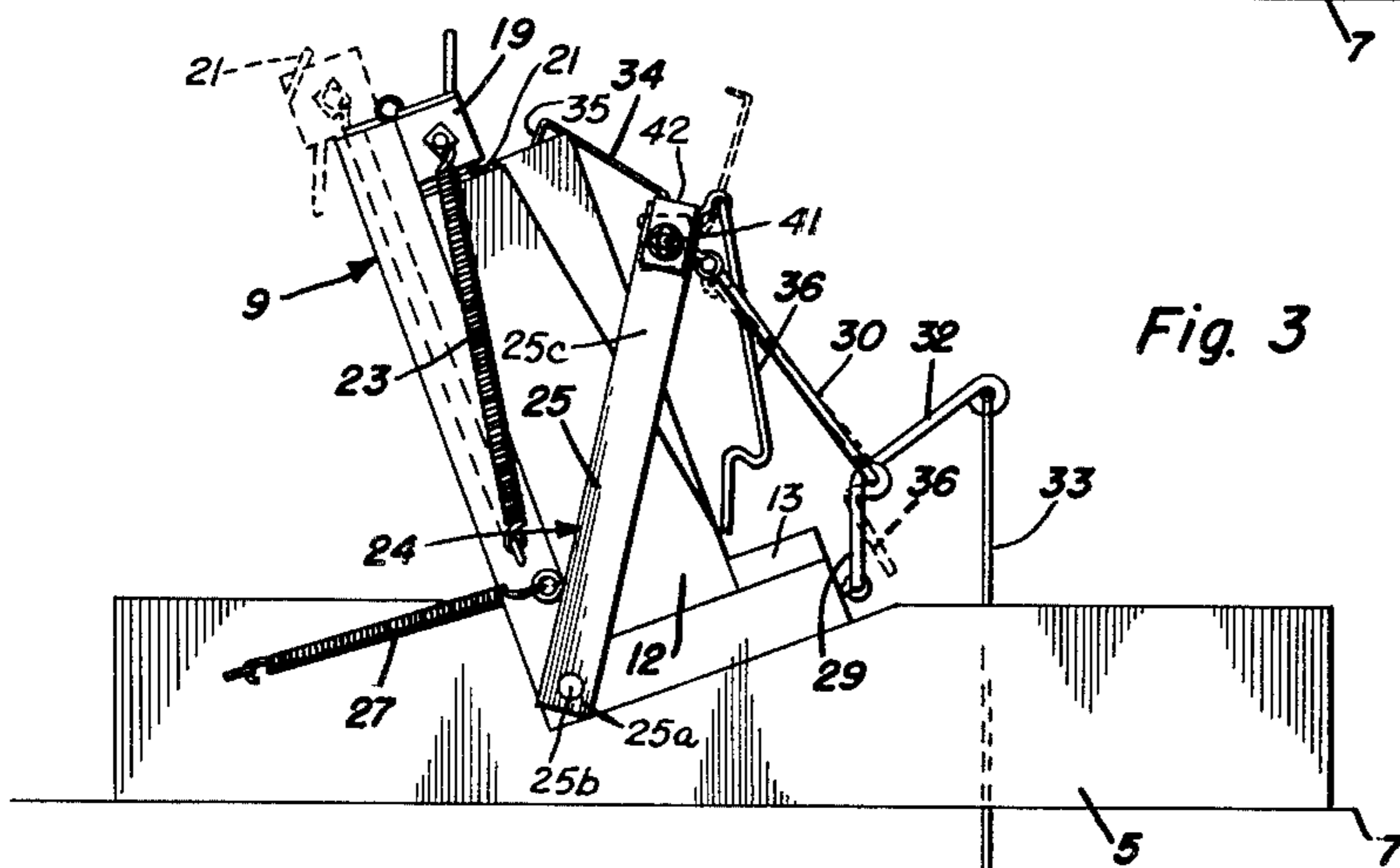
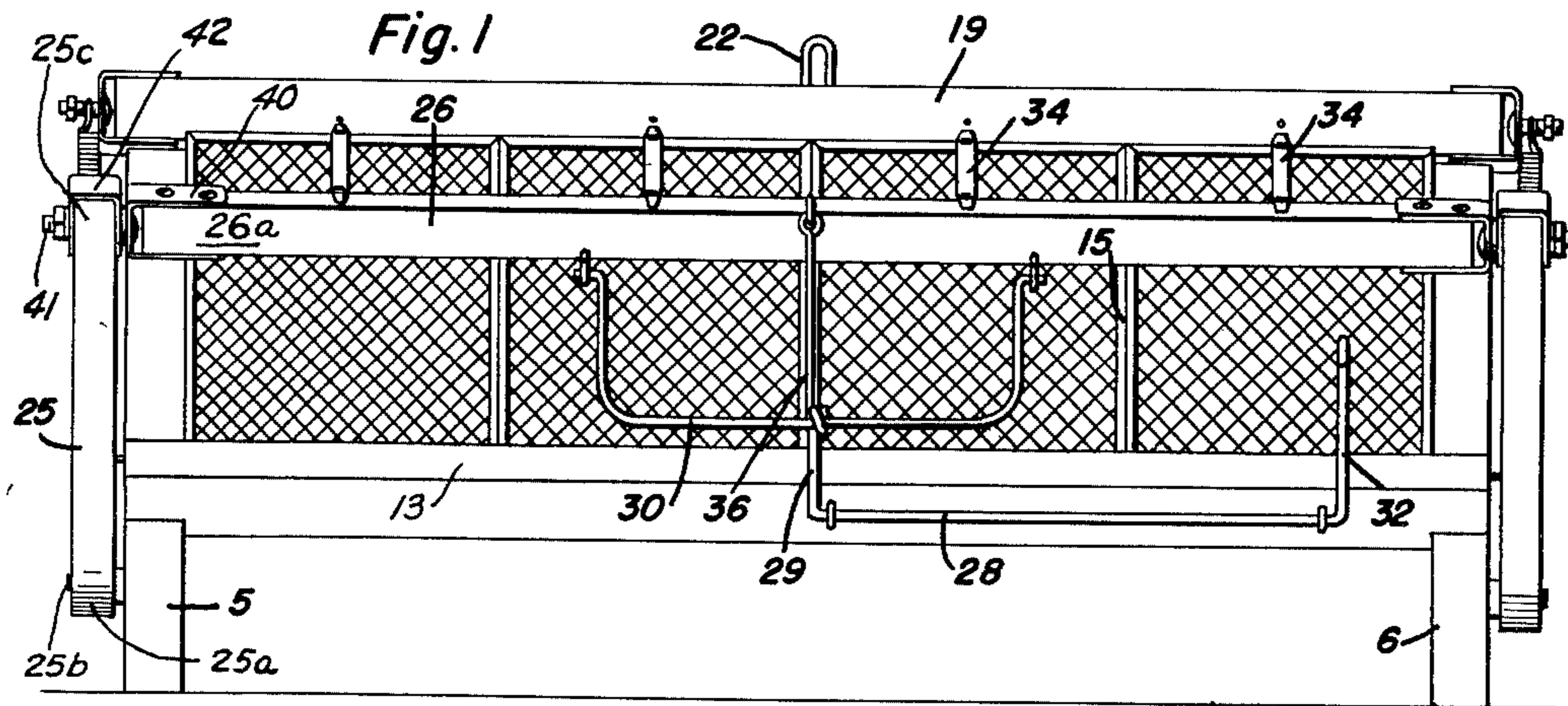
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2,643,400

PRESS FOR SECURING WAX COMB FOUNDATIONS IN HONEY FRAMES

Filed Oct. 2, 1950

2 Sheets-Sheet 1



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PRESS FOR SECURING WAX COMB FOUNDATIONS IN HONEY FRAMES

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2 Sheets-Sheet 2

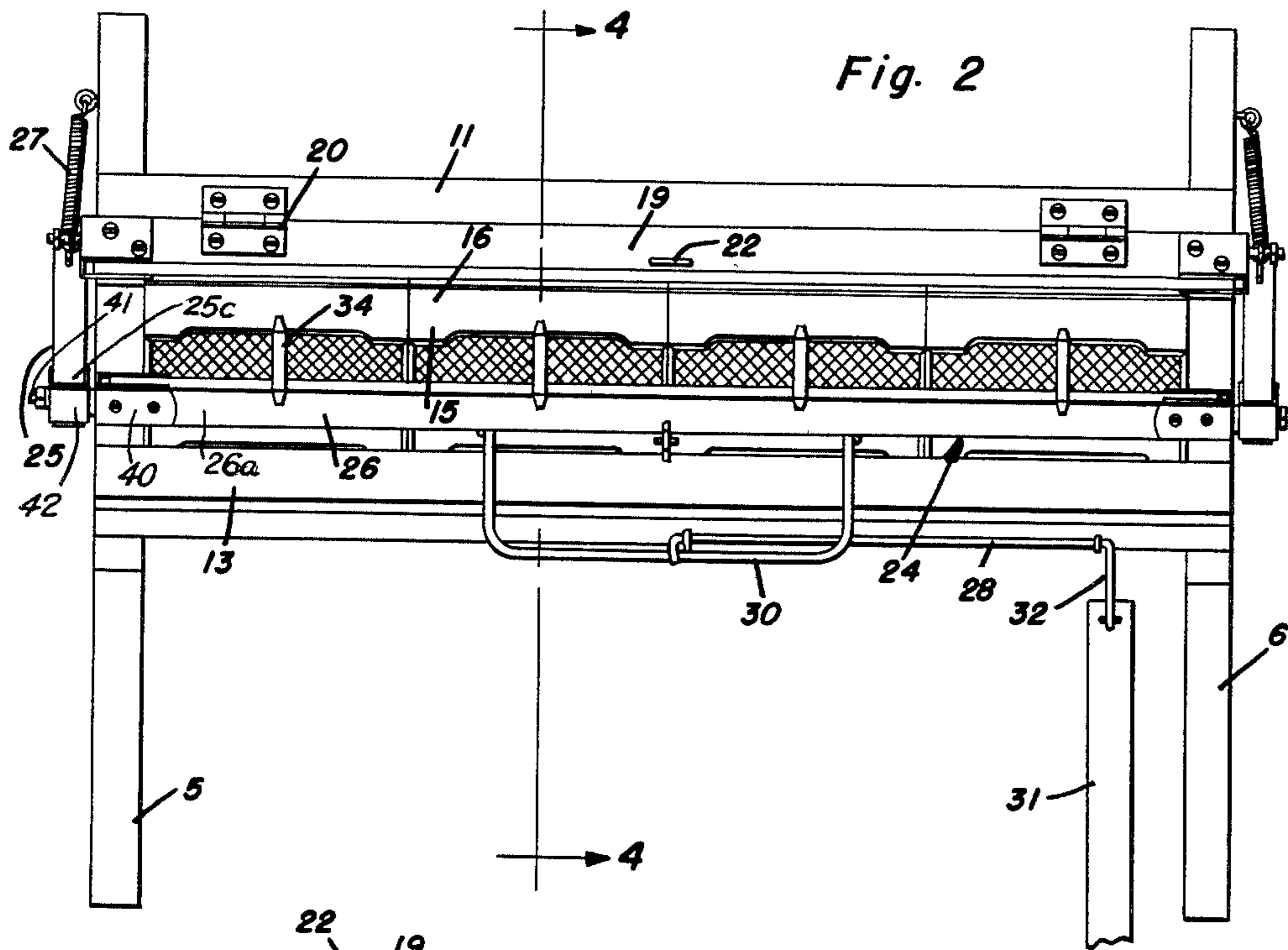


Fig. 2

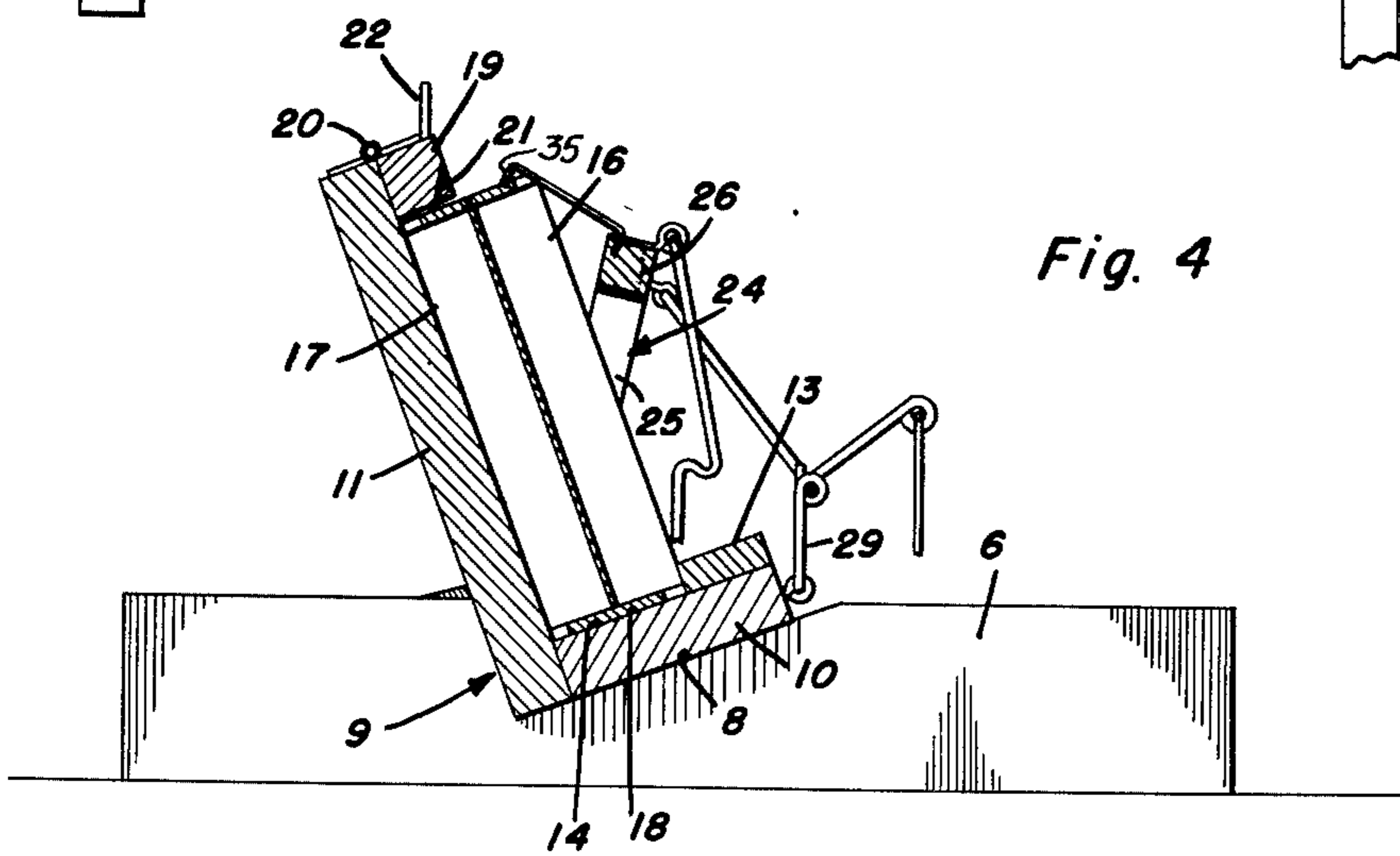


Fig. 4

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# UNITED STATES PATENT OFFICE

2,643,400

## PRESS FOR SECURING WAX COMB FOUNDATIONS IN HONEY FRAMES

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Application October 2, 1950, Serial No. 187,959

1 Claim. (Cl. 6—12)

1

The present invention relates to new and useful improvements in presses for securing wax comb foundations in honey frames for use in bee hives and more particularly to a treadle operated press mounted on a work bench.

An important object of the invention is to provide a press capable of holding a group of honey frames in a position for receiving a sheet of wax comb foundation for simultaneously securing the foundation in all of the frames.

Another object of the invention is to provide a press of this character designed to facilitate the ease and speed of assembling the wax foundation in the honey frames.

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

Other objects and advantages reside in the details of construction and operation as more fully hereinafter described and claimed, reference being had to the accompanying drawings forming part hereof, wherein like numerals refer to like parts throughout, and in which:

Figure 1 is a front elevational view;

Figure 2 is a top plan view;

Figure 3 is an end elevational view;

Figure 4 is a transverse sectional view taken on a line 4—4 of Figure 2 showing the front frame closed and;

Figure 5 is a view similar to Figure 4 and showing the front frame open.

Referring now to the drawings in detail, wherein for the purpose of illustration I have disclosed a preferred embodiment of my invention, the numerals 5 and 6 designate a pair of spaced apart parallel base rails suitably fixed to a work bench or other supporting structure 7. The rails are formed with substantially V-shaped notches 8 to receive a press frame 9 which includes an upwardly inclined base 10, a rearwardly inclined back 11 and end walls 12. The press frame 9 is nailed or otherwise suitably secured to the base rails 5 and 6.

A front rail 13 is secured on top of base 10 at its front edge to form a recess 14 to receive a group of honey frames 15, each of which include front and rear frame sections 16 and 17 fixed at their lower side edges to a common bottom frame member 18 by a conventional mortise and tenon joint (not shown), the frames 15 lying in an inclined position against back 11 of the press.

The top of rear frame section 17 is held against

2

back 11 by a locking bar 19 connected to the top of back 11 by hinges 20 for vertical swinging movement from a locking position in front of back 11 and overlying the top of honey frame section 17 to an unlocking position on top of back 11. Pins 21 project downwardly from bar 19 to bite into the top of honey frame section 17 to hold the latter firmly in press frame 9. A handle 22 rises from locking bar 19.

A coil spring 23 is positioned vertically at each end of locking bar 19 with the lower ends of the springs attached to the ends of back 11 and the upper ends of the springs attached to the ends of locking bar 19 to hold the locking bar in either its locked or unlocked position.

A swingable inverted U-shaped frame 24 comprises a pair of legs 25 positioned vertically at the ends of the press frame 9 with the lower ends 25a of said legs pivoted by pins or the like 25b to the lower rear portion of the press frame for forward and rearward swinging movement of the legs and a horizontal bar 26 is rockably connected at its ends to the upper ends of legs 25 by means of U-shaped clips 40 secured to the end portions 26a of the bar 26 and pivoted to the central or right portions of the clips on bolts and nuts 41 passing transversely through the upper end portions 25c of the legs 25, as well as through reinforcing U-shaped clips 42 at the upper ends of said legs. Coil springs 27 connect the legs 25 to base rails 5 and 6 to hold the legs and bar 26 rearwardly.

A substantially U-shaped lever 28 is pivoted at its central portion to the front edge of base 10 and with one end 29 of the lever attached to the central portion of a U-shaped link 30 which has its ends pivoted to bar 26. A foot treadle 31 is attached to the other end 32 of lever 28 by a rod 33.

A plurality of hooks 34 are fixed at one end on top of bar 26 and are formed with prongs 35 at their free ends adapted to bite into the tops of the group of front honey frame sections 16 to connect the latter to the bar 26 for front and rear movement therewith. Hooks 34 are held in a released position, as shown by dotted lines in Figure 3, by a wire hook or catch 36 connected to bar 26 and by means of which the bar may be rocked to raise the hooks 34 and held in raised position by connecting the free end of hook or catch 36 to the central portion of link 30.

In the operation of the device, the group of honey frames 15 are placed side by side in recess 14 of press frame 9 and locking bar 19 is swung downwardly to engage pins 21 in the tops of the

3

rear sections 17 of the honey frames to hold the rear sections in the press frame.

Hooks 34 of swingable frame 24 are then engaged with the tops of front sections 16 of the honey frames and foot treadle 31 is depressed to pull swingable frame 24 forwardly and which also pulls front frame sections 16 forwardly, whereupon a sheet of wax foundation 37 may be placed between the front and rear sections 16 and 17 of the entire group of honey frames.

Upon releasing treadle 31, springs 27 pull swingable frame 24 and front sections 16 rearwardly to clamp the foundation between the sections, and after the sections of the honey frames have been secured to each other the hooks 34 are released from the front sections 16 and swingable frame 24 again pulled forwardly by treadle 31, whereupon the honey frames 15, with the foundation 37 secured therein, may be individually removed from press frame 9.

In view of the foregoing description taken in conjunction with the accompanying drawings it is believed that a clear understanding of the device will be quite apparent to those skilled in this art. A more detailed description is accordingly deemed unnecessary.

It is to be understood, however, that even though there is herein shown and described a preferred embodiment of the invention the same is susceptible to certain changes fully comprehended by the spirit of the invention as herein described and the scope of the appended claim.

Having described the invention, what is claimed as new is:

4

In a wax foundation press for honey frames, a stationary press frame adapted for holding a group of sectional separable honey frames in upright position, and means for separating one section of each of the honey frames from its companion section and comprising an inverted U-shaped frame including a pair of legs pivoted at their lower ends to the press frame and swingable vertically toward and away from the honey frames and said U-shaped frame further including a rockable bar connecting the upper ends of the legs to each other and extending transversely in front of the honey frames, a plurality of hooks rigidly connected to the rockable bar and having free end portions swingable by the bar into and out of engagement with the adjacent sections of the honey frames, catch means connected to the bar and holding the bar in a predetermined rocked position with the hooks raised out of engaged position with the honey frame and treadle actuating means for the U-shaped frame.

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