

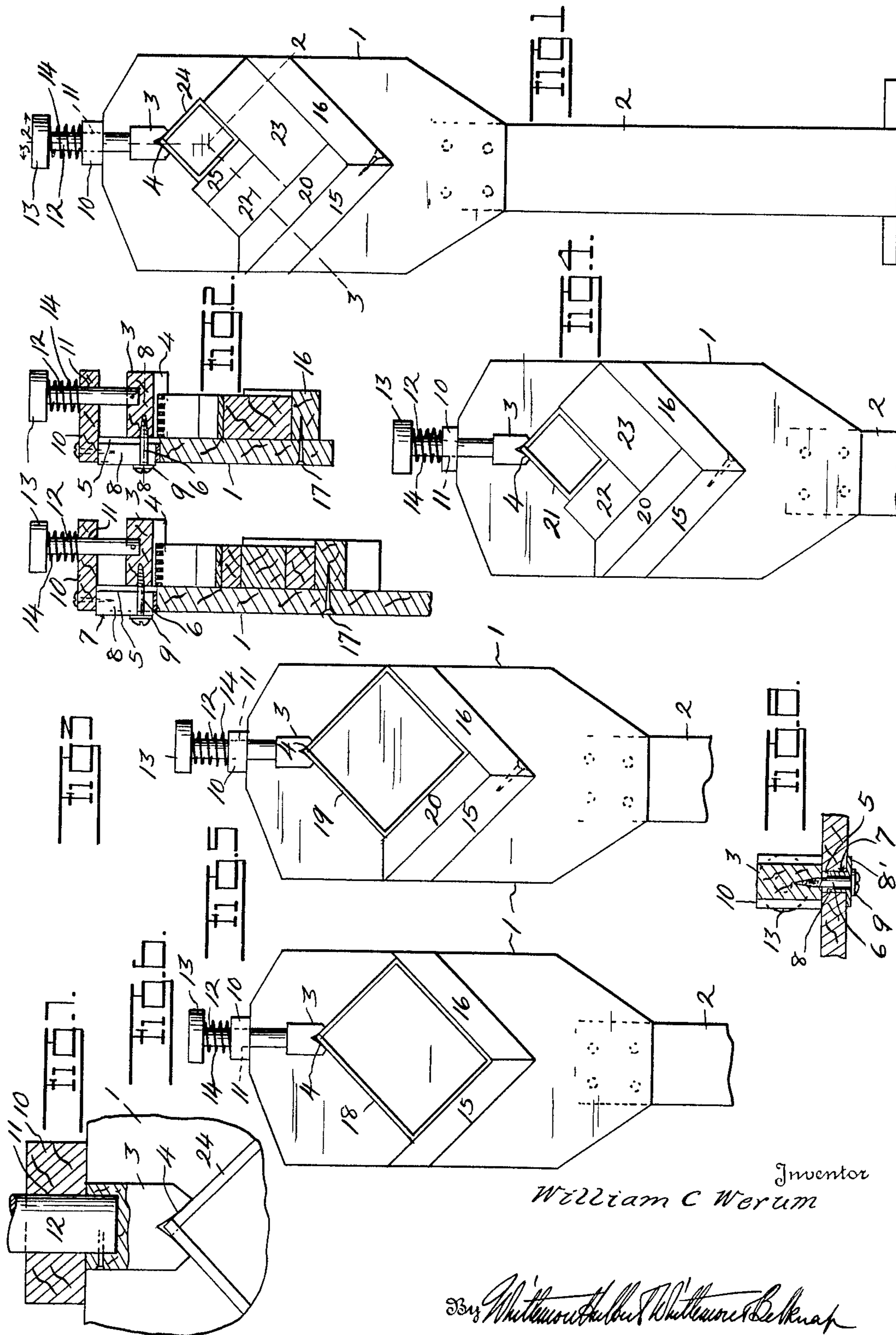
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PRESS FOR FORMING COMB HONEY SECTIONS

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## PRESS FOR FORMING COMB-HONEY SECTIONS

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### 1 Claim. (Cl. 6—12)

The invention relates to presses for forming comb-honey sections from preformed blanks and has for one of its objects to provide an improved construction of press of this nature which is very simple to operate. Another object is to provide a press which is adapted to form different sections, such as the standard and individual sections.

These and other objects of the invention will become apparent from the following description, taken in connection with the accompanying drawing, in which

Figure 1 is a front elevation of a press for forming comb-honey sections, showing an embodiment of my invention;

Figures 2 and 3 are cross sections on the lines 2—2 and 3—3, respectively, of Figure 1;

Figures 4, 5 and 6 are views similar to Figure 1, showing the press adapted to form different comb-honey sections;

Figure 7 is an enlarged view, partly broken away, of a portion of Figure 1;

Figure 8 is a cross section on the line 8—8 of Figure 2.

The press embodying my invention is designed to form comb-honey sections from preformed blanks and, furthermore, is designed to alternatively form different comb-honey sections, including both sizes of the standard and of the individual sections. One size of the standard and the individual sections is square and the other size of each is oblong. Each of these sections is formed from a wood blank of the correct size and has in one side correctly positioned transverse V grooves and at its ends accurately formed tongues and grooves. Each section blank is adapted to be folded at the V grooves and to have square corners and, furthermore, each section blank is adapted to be made continuous or solid by dove-tailing the tongues and grooves at one end with the grooves and tongues at the other end.

The press has the supporting back 1 which may be supported in a device by means of a vise engaging its lower end, or by means of a suitable standard 2 secured to its lower end and adapted to rest upon the floor. The device also has the closing member 3 which is located at one side of the back and is movable longitudinally thereof. This closing member has a V-shaped lower face with the sides of the V or groove 4 preferably slightly convex and inclined toward each other at an angle slightly less than 90 degrees, so that the portions of these sides below the apex will engage the sides of the completed sections near

their ends slightly below the tongues and grooves in these ends. The upper portion of the supporting back is provided with the longitudinally extending slot 5 through which extends the member 6 for adjustably securing the closing member 3 against the front face of the back. This adjustable member, as shown, is a screw extending through the slot and threaded into the closing member and for the purpose of avoiding wearing the back, I have provided the wear member 7 having a portion 8 extending within the slot and at opposite sides of the screw and having flanges 8' at the back of the supporting back and engageable preferably by the washer 9 encircling the screw and abutting its head.

10 is a guide fixedly secured to the upper end of the supporting back and extending transversely thereof and over the closing member 3. This guide is provided with the hole 11 through which extends the plunger 12, the lower end of the plunger extending into and being secured to the closing member 3. The plunger preferably has at its upper end the knob 13 which may be hit by hand to lower the plunger and the closing member to complete the forming of the blank into the section, including the crowding of the ends of the blank together with the tongues of one end in the grooves of the other end. 14 is a coil spring between the guide 10 and the knob 13 for normally urging the plunger upwardly and holding the closing member against the guide.

The press is provided with frame sections which form two sides of a frame for receiving and assisting in folding a preformed blank. These frame sections are so arranged that the sides of the frame formed thereby are at right angles to each other and, furthermore, they are so positioned that they position the ends of the blank vertically beneath the closing member 3, so that after this closing member has been operated the ends of the blank forming this section are firmly secured together and the corners of the resulting section are square.

As shown in Figure 6, the press has the frame sections 15 and 16 which are rigidly secured to the front side of the supporting back by suitable means such as the screws 17 and which form two sides of a frame with the sides extending at right angles to each other. The apex between these two sides is so positioned with respect to the vertical path of movement of the closing member 3 that when the blank which is adapted to form the standard oblong comb-honey section 18 has been mounted and folded into the frame its ends, when held in proximity to each other, will be

engaged by the side walls of the groove 4 in the lower face of the closing member 3 and these ends will be crowded together and the resulting section will have square corners. It will be noted  
5 that the blank as preformed is a flat strip and that when inserting the same the frame assists in the bending. It will also be noted that the closing member 3 is adapted to be moved downwardly quickly by hitting the knob 13 with the hand and  
10 this quick action is very important, since it causes the firm uniting of the ends of the blank and the proper forming of the comb-honey section without breaking the joints at the corners of this comb-honey section.

15 To form the standard square comb-honey section 19 the frame section 20 is mounted upon the frame section 15 to cooperate with the frame section 16 in forming two sides of the frame which extend at right angles to each other and to locate  
20 the apex between these two sides vertically below the apex of the groove 4 in the closing member, so that when the blank has been inserted into place and bent its adjacent ends will be in place to be properly engaged by the side walls of the  
25 groove 4. Figure 5 shows this construction.

As shown in Figure 4, the press is adapted to form the individual oblong comb-honey section 21, four of which equal the standard oblong section 18. In this instance the frame sections 22  
30 and 23 are added, the two together forming two sides of the frame extending at right angles to each other. These two sections are rigidly secured to each other and the section 22 is above the section 20 and the section 23 is above the section  
35 16. Furthermore, the apex of the frame sides formed by these sections 22 and 23 is so located that when the blank, which is used in forming the individual oblong section 21, is inserted and folded into place its ends will be vertically  
40 below the apex of the groove 4 in the lower face of the closing member 3.

To form the individual square comb-honey section 24, the press, as shown in Figures 1, 2, 3 and 7 respectively, further has the frame section  
45 25 which is supported upon the section 22 and which with the frame section 23 forms two sides

of a frame extending at right angles to each other and with the apex therebetween located vertically beneath the groove 4 in the lower face of the closing member, whereby when the blank used in  
forming the individual comb-honey section 24  
80 has been inserted and bent into place its ends will be in proper position to be engaged by the sides of the groove in the lower face of the closing member.

The supporting back, the closing member, the  
85 plunger including its knob, the guide, and the frame sections are all preferably formed of wood. The frame sections, with the exception of the frame sections 15 and 16, which latter are rigidly  
90 secured to the supporting back and also to each other, may be readily removed or assembled in place, so that the press may be readily made to form either of the two standard comb-honey sections, or either of the two individual comb-honey  
95 sections. Furthermore, this press forms these sections with their ends firmly engaged with each other and with their corners square, which is very essential in the handling of these comb-honey sections.

What I claim as my invention is: 100

A press for forming comb-honey sections from blanks having transverse V grooves and ends with  
tongues and grooves, which comprises a supporting  
back provided with a longitudinally extending  
105 slot at its upper end, frame sections upon and at one side of said back forming two adjacent sides at right angles to each other of a frame for receiving and assisting in folding a blank, a member at the same side of said back and having a  
110 V-shaped face for engaging the ends of the blank and crowding the ends together with the tongues of one end in the grooves of the other end, adjustable means extending through said slot and engaging said member to secure the same against  
115 said back to hold the same from movement away from said back, a guide upon said back, a plunger extending through said guide and connected to said member, and spring means for normally holding said member against said guide.

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