

C. W. KALAHER.

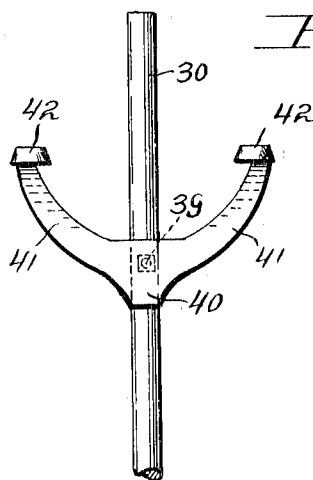
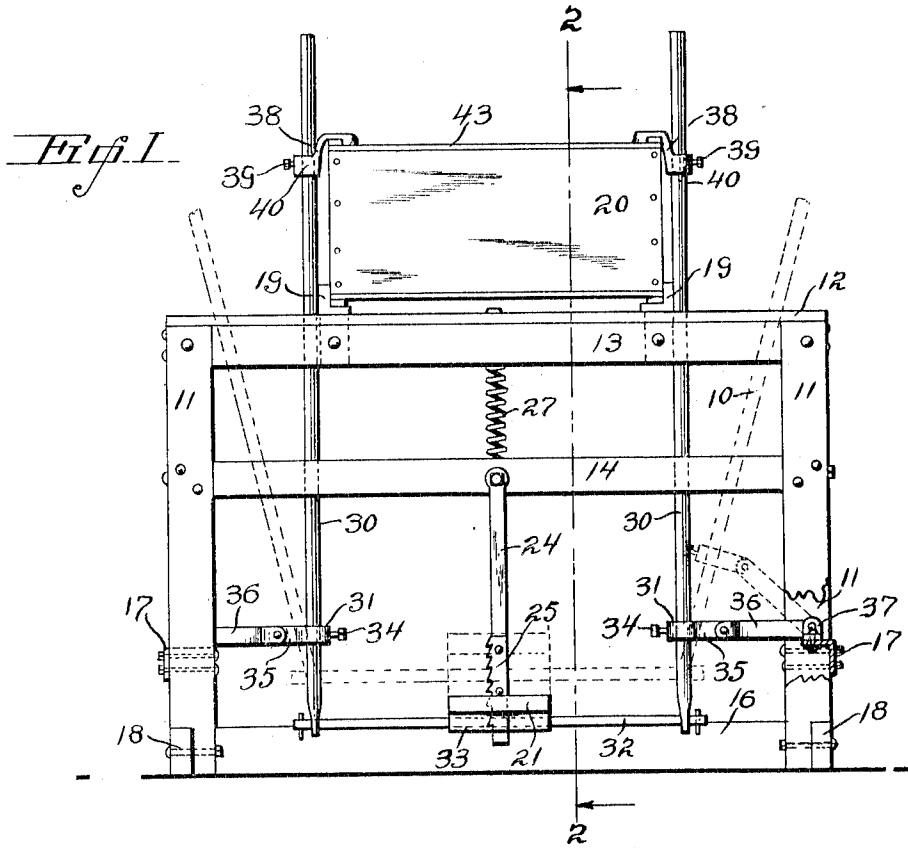
PRESS.

APPLICATION FILED NOV. 29, 1913.

1,114,992.

Patented Oct. 27, 1914.

2 SHEETS-SHEET 1.



Witnesses

E. S. Hall.

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By

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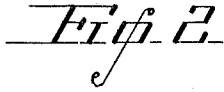
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PRESS.

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2 SHEETS--SHEET 2.



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UNITED STATES PATENT OFFICE.

CHARLES W. KALAHER, OF ZILLAH, WASHINGTON.

PRESS.

1,114,992.

Specification of Letters Patent.

Patented Oct. 27, 1914.

Application filed November 29, 1913. Serial No. 803,821.

To all whom it may concern:

Be it known that I, CHARLES W. KALAHER, a citizen of the United States, residing at Zillah, in the county of Yakima and State of Washington, have invented certain new and useful Improvements in Presses, of which the following is a specification.

This invention relates to an improved press which is intended to be used for holding the lid of a fruit box in place while the lid is being nailed to the box.

The principal object of the invention is to provide the press with improved clamping means for engaging the box lid, the clamping means being so constructed that it may be used for boxes of varying height and length.

Another object of the invention is to provide improved operating means for the clamp so that the clamp may be held in a lowered position while the lid is being nailed to the box and to also provide improved means for guiding the vertical bars which carry the adjustably-mounted lid-engaging claws.

This invention is illustrated in the accompanying drawings wherein—

Figure 1 is a side elevation of the improved press; Fig. 2 is a vertical sectional view taken along the line 2—2 of Fig. 1; Fig. 3 is an enlarged view of the upper-end portion of one of the vertical bars with the lid-engaging claw shown in place; Fig. 4 is a fragmentary view showing the treadle in section and the rack in elevation.

This press is provided with a supporting table which is provided with the corner standards 11 upon which the top 12 rests. The forward standards 11 are connected by the cross bars 13 and 14 and the rear standards are connected by the cross bars 15 and 16 and connected with the forward standards by the angle bars 17 and side bars 18.

The various parts which form the table are secured together by suitable bolts shown, and it will therefore be seen that the table will be very strong in construction and not liable to easily come to pieces or wear out. Angle bars 19 are carried by the table top 12, but are not securely held to the top since it is desired that these angle bars may be moved to accommodate themselves to the length of the box 20 which they support.

The treadle 21 has its rear end pivotally connected with the cross bar 16 by means of the hinge 22 and has its forward-end portion

provided with a slot 23 through which is passed the lower end of a bar 24 which carries a rack 25. A latch 26 is carried by the treadle and engages the teeth of the rack 25 to releasably hold the treadle in a lowered position. A spring 27 has one end connected with the treadle by means of the eye bolt 28 and has its upper end connected with the table top by means of the eye bolt 29. This spring is provided to yieldably hold the treadle in the raised position shown in dotted lines in Fig. 2. The rods 30 which are slidably mounted in slots formed in the table top have their lower-end portions passed through the collars 31 and pivotally connected with the pivot pin 32 which is rotatably connected with the treadle by means of the bar 33. The collars 31 are adjustably connected with the rods 30 by means of the set screws 34 and are provided with extensions 35 so that the collars may be pivotally connected with the links 36. These links 36 have their outer-end portions pivotally connected with the pivot brackets 37 which are secured to the angle bars 17 as shown in Fig. 1.

The claws 38 are adjustably mounted upon the upper-end portions of the rods 30 and are releasably held in place by the set screws 39. Each of these claws comprises a sleeve 40 which carries the set screw 39 and forms a connecting means for the two arms 41 which extend in diverging relation from the sleeve, as shown in Fig. 3 and have their upper ends bent to extend beyond the ends of the box lid, as shown in Fig. 1. The upper ends of the arms are provided with enlarged-end portions 42 which provide means for firmly gripping the box lid and prevent any danger of the box lid being broken away when the treadle is moved downwardly.

The operation of this machine is as follows: The box 20 is put upon the supports 19 and the cover 43 is then put in place. The rods 30 are then moved to the proper position so that the claws 38 may engage the box cover and the claws 38 adjusted to the proper position and the set screws tightened. The treadle can then be moved downwardly and this will cause the rods 30 to swing toward the center of the table until the claws engage the box cover and then move downwardly to the position shown in Fig. 1 to hold the cover securely in place. The latch plate 26 will engage the rack 25 and securely hold the treadle in

the lowered position so that the operator can remove his foot from the treadle while securing the cover with suitable nails. The treadle can then be moved to disengage the rack and the spring 27 will then return the treadle and rods 30 to the normal position. It is, of course, obvious that the claws will have to be adjusted upon the rods 30 according to the size of the box and that the collars 31 are adjusted according to the amount it is desired to have the rods 30 swing outwardly when the treadle is in the raised position.

What is claimed is:

1. A press of the character described comprising a supporting frame, a treadle carried by said frame, rods pivotally connected with said treadle, article engaging means mounted upon said rods, and guiding means for said rods carried by said supporting frame and adjustably connected with said rods.

2. A press of the character described comprising a support, a treadle carried by said support, a pivot pin rotatably connected to said treadle, rods pivotally connected with said pin and extending above said support, article engaging means carried by said rods, guides adjustably connected with said rods,

and links pivotally connected with said guides and with said support.

3. A press of the character described comprising a support, a treadle carried by said support and provided with a slot, a rack bar carried by said support and extending through said slot, a latch plate carried by said treadle and extending partially across said slot for engaging said rack bar, means for yieldably holding said treadle in a normal position, article-engaging means connected with said treadle, and guiding means carried by said support and adjustably connected with said article-engaging means.

4. A press of the character described comprising a supporting frame, rods extending vertically through said frame, article-engaging means carried by said rods, collars slidably mounted upon said rods, means for releasably holding said collars in an adjusted position, links pivotally connected with said collars, and operating means for said rods.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES W. KALAHER.

Witnesses:

H. W. SUTTON.

E. M. DONELSON.