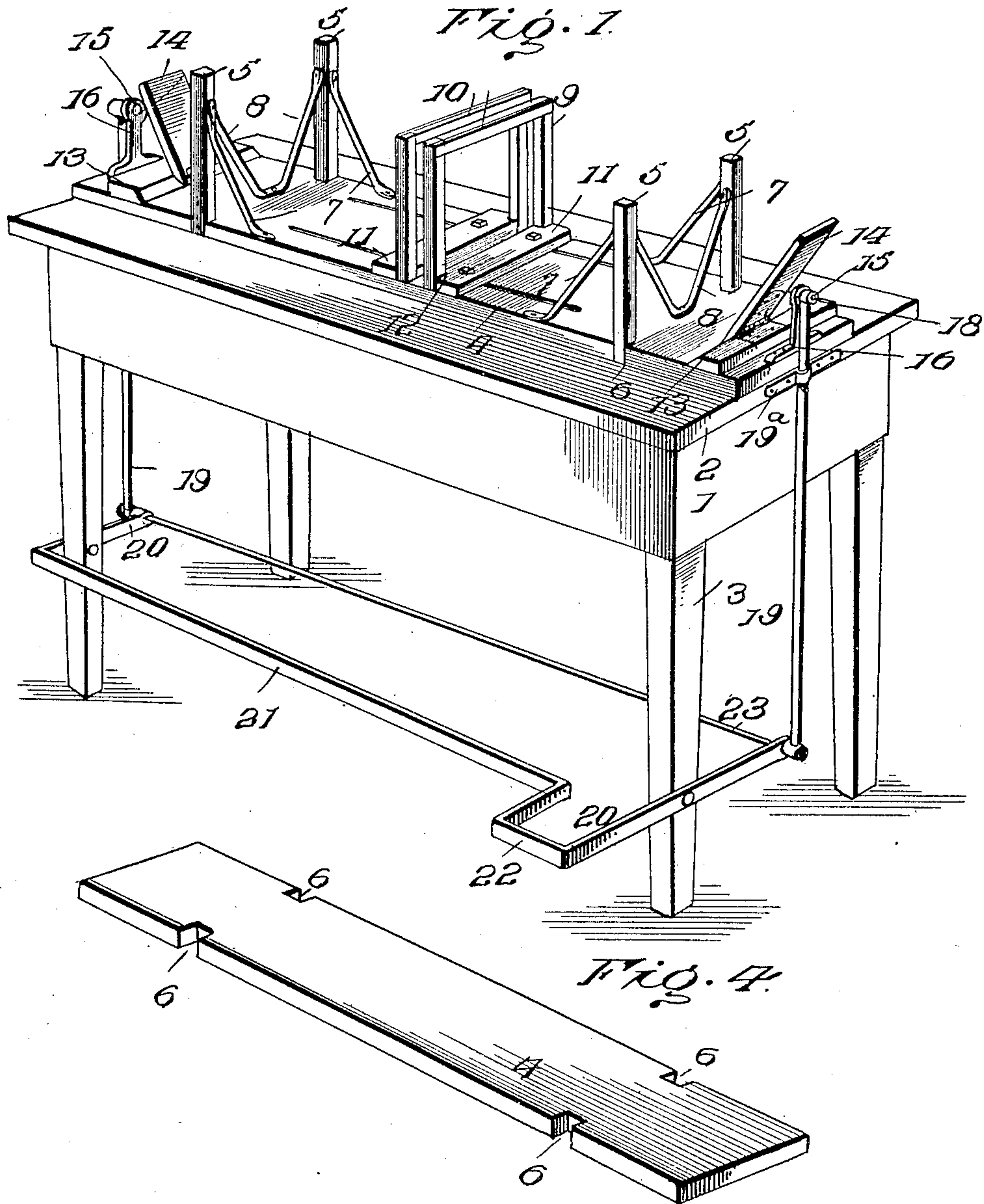


No. 871,957.

PATENTED NOV. 26, 1907.

L. D. RIGG.
BOX OR CRATE MACHINE.
APPLICATION FILED FEB. 19, 1907.

2 SHEETS—SHEET 1.



Witnesses
J. M. Miller
W. R. Woodson

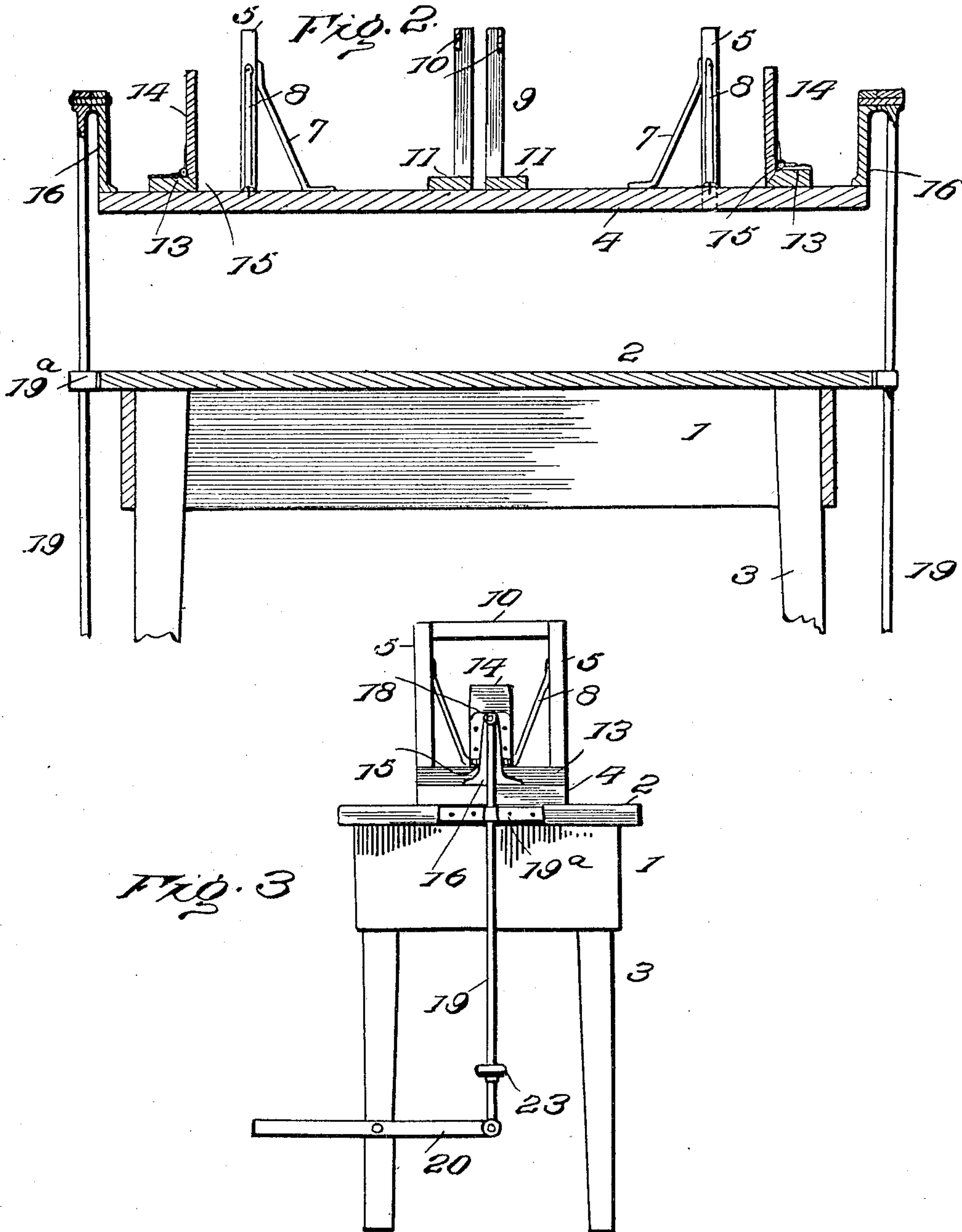
L. D. Rigg Inventor
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UNITED STATES PATENT OFFICE.

LAUREN D. RIGG, OF LEON, KANSAS.

BOX OR CRATE MACHINE.

No. 871,957.

Specification of Letters Patent.

Patented Nov. 26, 1907.

Application filed February 19, 1907. Serial No. 358,263.

To all whom it may concern:

Be it known that I, LAUREN D. RIGG, a citizen of the United States, residing at Leon, in the county of Butler and State of Kansas, have invented certain new and useful Improvements in Box or Crate Machines, of which the following is a specification.

This invention contemplates certain new and useful improvements in box or crate machines, and the invention has for its object an improved machine of this character, designed to hold a box, crate, or case, in convenient position for the workman to nail parts together, the machine being designed to facilitate the operation of nailing the box or case, so as to increase the output and effect economic results.

With this and other objects in view, as will more fully appear as the description proceeds, the invention consists in certain constructions, arrangements and combinations of parts, which I shall hereinafter describe and then point out the novel features in the appended claims.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction and the means for effecting the result, reference is to be had to the following description and accompanying drawing, in which:

Figure 1 is a perspective view of my improved box or crate machine; Fig. 2 is a longitudinal sectional view, with the box holder raised; Fig. 3 is an end view of the machine; and Fig. 4 is a detail perspective view of the base of the box holder.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The supporting framework 1 of my improved machine, is in the form of a table embodying a horizontal top 2 supported in an elevated position on legs 3.

The holder for the crate, box, case or the like, embodies a base portion 4, adapted to rest on its side edge or bottom on the table top 2. Near each end of the base 4 are standards 5, arranged in two pairs, as shown and in the present instance having their lower ends fitted within recesses 6 in the side edges of the base 4. The end standards 5 are preferably braced by side braces 7 and V-shaped end braces 8. Between the end standards 5 are two pairs of middle uprights 9 which are braced at their outer ends

by means of cross bars 10 and which are mounted between middle base blocks 11, extending across the base 4. These blocks 11 are provided at their ends with recesses 12, in which the standards 9 fit.

13 designates two end base blocks, which extend transversely of the base 4 beyond the end standards 5, and a clamp plate 14 is hinged at one edge to turn about a horizontal axis on each block 13, at the innermost edge thereof, the hinge 15 for said plates being of the spring type or variety and the spring thereof tending to swing the plates inwardly or towards the end standards 5.

At each end of the base 4, an arm or bracket 16 is located. The arm of each bracket is formed with an aperture in which the laterally extending pivot pin 18 of an actuating rod 19 is mounted and held. The two rods 19 extend downwardly and are guided in their vertical movement by means of straps 19^a secured to the ends of the table top 2. A rod 23 connects both of the actuating rods 19 for simultaneous movement, and levers 20 are connected at one end to the ends of the rod 23 and are fulcrumed intermediate of the front legs 3 to rock in a vertical plane. The levers 20 are connected for simultaneous movement by a cross bar 21 extending in front of the framework and provided at one end with an offset 22 forming a treadle.

From the foregoing description in connection with the accompanying drawings, it will be understood that the box holder 4 as a whole, is mounted to rock about its longitudinal axis, on the pivot pins 18.

In the practical operation of my improved machine, the treadle 22 is first depressed so as to raise the box holder off of the table top 2, whereupon the attendant swings the box holder away from him on the pivot pins 18 until the edge of the base 4 rests upon the table top 2 and the standards 5 and 9 project out towards him horizontally. The ends of the egg case, or other box or crate being nailed, are then placed by the attendant against the standards and the center of the box is inserted in position and the clamp plates 14 closed against the ends. The sides of the box are then nailed to the end and center pieces. The next step is to again depress the treadle and raise the box holder and turn it a one-fourth revolution and while in this position, nail the box at the bottom, and again, the box holder is raised and turned

another one-fourth revolution, so as to bring the box in position where it can be nailed on the side after which operation the box is released by swinging the end clamps outwardly
5 by hand, the completed box or case is removed and the holder is replaced to the initial position in readiness for receiving other parts to be nailed together. As shown in the drawings, the standards 9 and their
10 supporting blocks 11 are adjustable on the base 4 by means of set screws extending through the blocks and working in slots in the base.

Having thus described the invention, what
15 is claimed as new is:—

The herein described crate machine comprising a supporting table, a base mounted upon the table, end standards projecting upwardly from the base and each comprising
20 a pair of spaced uprights secured to the sides of the base, side braces for the uprights, V shape braces between each pair of the uprights, base blocks mounted upon the base adjacent the standards, swinging clamp

plates hinged to the base blocks and cooperating with the end standards to retain the ends of the crate in position, two opposing pairs of middle uprights, each pair being carried by a supporting block and the supporting blocks being adjustably mounted upon
30 the base, the pair of middle uprights cooperating with each other to retain the middle partition of the crate between them, an upwardly projecting bracket applied to each end of the base, vertically reciprocating
35 actuating rods slidably mounted upon opposite ends of the supporting table and having a pivotal connection with the brackets, and a treadle mechanism mounted upon the supporting table for operating the said actuating
40 rods.

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

LAUREN D. RIGG. [L. s.]

Witnesses:

GRANT ELWELL,
H. E. KING.