

No. 764,117.

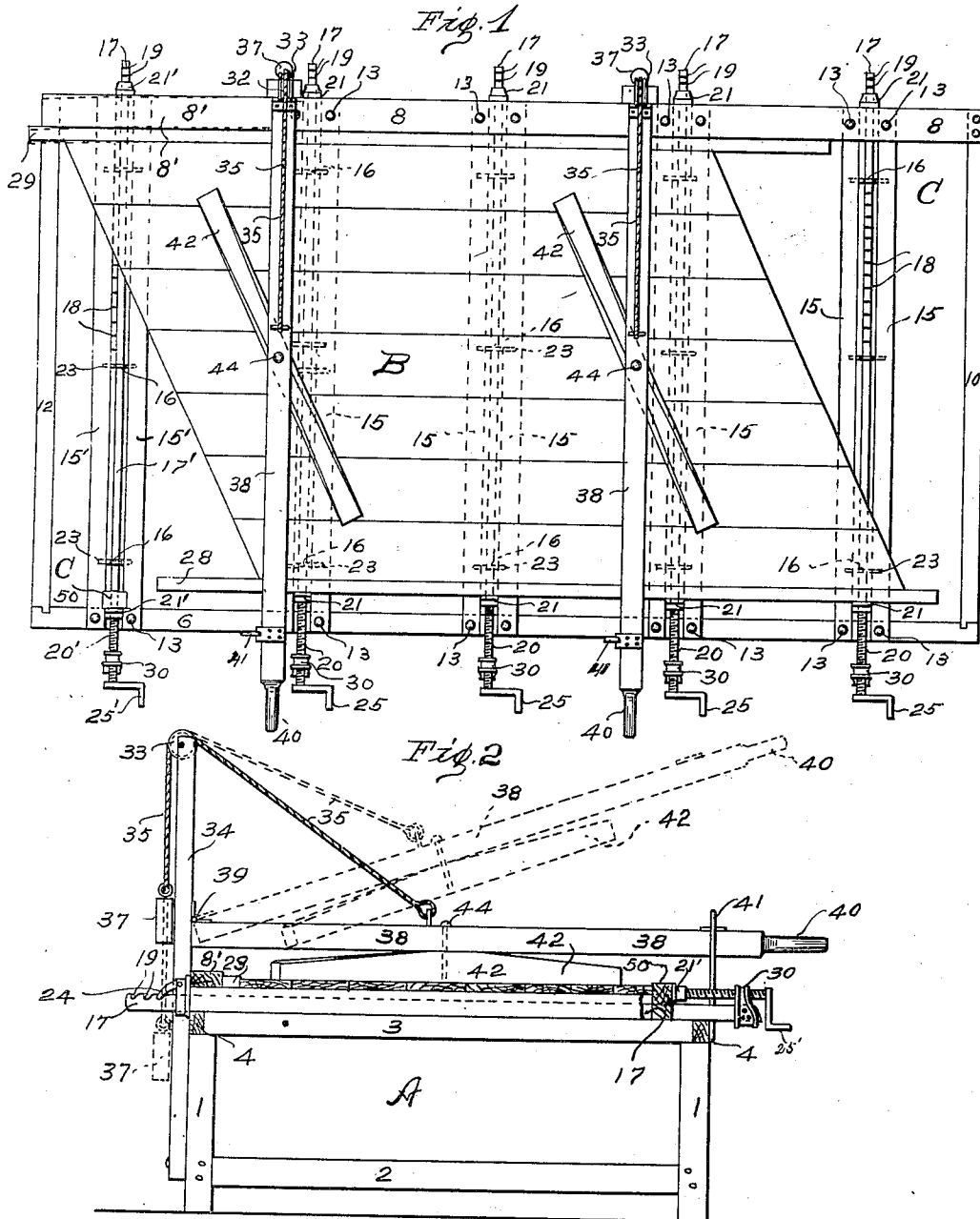
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A. DOLGE.

TABLE FOR MAKING SOUNDING BOARDS FOR PIANOS.

APPLICATION FILED OCT. 29, 1903.

NO MODEL.



WITNESSES:

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ALFRED DOLGE, OF LOS ANGELES, CALIFORNIA.

TABLE FOR MAKING SOUNDING-BOARDS FOR PIANOS.

SPECIFICATION forming part of Letters Patent No. 764,117, dated July 5, 1904.

Application filed October 29, 1903. Serial No. 179,074. (No model.)

To all whom it may concern:

Be it known that I, ALFRED DOLGE, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles, State of California, have invented and discovered a new and useful Improvement in Tables for Making Sounding-Boards for Pianos; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in tables for making sounding-boards for pianos; and the object of my improvement is to construct tables on which sounding-boards are manufactured provided with adjustable and movable parts to force the ends, sides, and surfaces of strips of lumber to be made into sounding-boards for pianos and other musical instruments into parallel lines with each other before permanently securing the strips together, reference being made to the accompanying drawings, to the figures and reference numerals, letters, and characters marked thereon; and the invention consists, essentially, in the construction, combination, and arrangement of the several parts, as will be hereinafter more fully described in the specification, shown upon the drawings appended hereto, and specifically pointed out in the claims made a part hereof. I attain these objects by the construction illustrated upon the accompanying drawings, in which—

Figure 1 is a plan view of my improved table and the several parts connected therewith in operative positions forming together strips of lumber forming a sounding-board resting upon the table. Fig. 2 is an end view of the table, a part thereof broken away; and Figs. 3 and 4 are views in detail of parts of my improvement.

Similar reference numerals, letters, and characters refer to like parts throughout the several views.

The letter A indicates the table and parts connected therewith, and B denotes the sounding-board in process of construction thereon, and C represents the frame secured to the table.

The numerals 1 1 refer to the two legs of

the table A, which are connected by cross-rails, only one of which is represented by the numeral 3 and is shown upon Fig. 2 of the drawings. The upper ends of the two legs of the table are connected by the longitudinal rails 4 4, (shown upon Fig. 2 of the drawings,) abutting against the ends of one of the cross-rails 3, resting upon the upper ends of the legs 1 1, (also shown upon Fig. 2 of the drawings, the legs of the table connected by the longitudinal braces, cross-braces, and diagonal braces, if desired, which, with the longitudinal and cross rails, form the table A. The numeral 2 refers to one of the cross-braces.

Resting upon the upper surface of the longitudinal and cross rails 4 and 3, respectively, of the table I secure by well-known means, as bolts, screws, or equivalent devices, the rectangular frame C, consisting of two side pieces 6 and 8 8' and two end pieces 10 and 12.

The side piece 6 of the rectangular frame is securely fastened to the table by means of bolts 13 13 or equivalent devices throughout the entire length of the table, the ends of the frame projecting a short distance over and beyond each end of the table. The side piece 8 8' of the said rectangular frame C is securely fastened in like manner as the piece 6 to the table by means of bolts 13 13 or equivalent devices for about two-thirds of the length thereof, as illustrated upon Fig. 1 of the drawings.

The portion 8' of the side piece 8 (shown in full and dotted lines upon Fig. 1 of the drawings) is not fastened to the frame or table, but is movable, having an edgewise elastic springing movement, and is adapted to be pressed toward the companion side piece 6 of the rectangular frame C by means of the clamping-bar 17', secured between the pair of cross-braces 15' 15', which passes through the perforated stop 50. (Shown upon Fig. 1 of the drawings.) Against this stop 50 the buffer or abutment 21' presses when the clamping-screw 20' is revolved by the crank 25'. In this way the projecting ends of the strips of lumber forming the sounding-board B out of parallel with the fixed side piece 6 of the frame C are pressed in lines parallel therewith and are held in positions until the glue between the edges of the strips are dried.

Secured to the frame C at each end thereof, preferably arranged in pairs like the cross-braces 15' 15', are the cross-braces 15 15. These cross-braces are securely fastened to the frame C, as well as to the table A, by means of bolts 13 13, hereinbefore referred to. Between each pair of said cross-frame braces 15' and 15 15 I secure the clamping-bars 17' and 17 17, provided at intervals with notches 18 18, in which the bridges 16 16 are seated, while the right-angled ends 23 23 thereof press against the under faces of the said cross-frame braces, as shown upon Figs. 1 and 4 of the drawings. These bridges prevent the clamping-bars 17' and 17 17 from being sprung upward while the strips of the sounding-board are being pressed together. Each of the clamping-bars 17' and 17 17 carries upon the rear end thereof a sliding buffer or abutment 21' and 21 21, respectively, to which is pivoted a pawl 24. (Illustrated upon Fig. 2 of the drawings.) The free end of the pawl is adapted to be removably inserted into the end notches 19 19 of the clamping-bars. The front faces of the rear buffers or abutments 21' and 21 21 are adapted to press against the rear edge of the longitudinal side piece 8 8' of the frame C when the cranks 25' and 25 25 on the front ends of the clamping-screws 20' and 20 20 are turned. When these cranks revolve, the clamping-screws press the rear faces of the front buffers or abutments 21' and 21 21 against the front edge of the loose clamping-strip 28. I also insert the rear loose clamping-strip 29 between the edge of the sounding-board and the front edge of the side piece 8 8' of the frame C.

The externally-screw-threaded clamping-screws 20' and 20 20 carry upon the rear ends thereof the front buffers or abutments 21' and 21 21, and these clamping-screws revolve when the cranks are turned in the internally-screw-threaded supports 30 30, secured on the front ends of the clamping-bars 17' and 17 17, as illustrated upon Fig. 2 of the drawings.

Secured to the rear side of the table and projecting above the same are the standards 34 34, and in the upper ends thereof I journal the pulleys 33 33. Over these pulleys the cords 35 35 travel. Each of these cords carries a weight 37 at one end, and the opposite end is fastened to the hand-lever 38. One end of these hand-levers is hinged at 39 to the standards. The opposite end of said levers is provided with a handle 40. The free ends of the levers 38 38 are adapted to be fastened to notched retainers 41 41, secured to the front side of the table, as shown upon Figs. 1, 2, and 3 of the drawings. I preferably swivel, by means of the bolts 44 44 or equivalent devices, to the under side of the levers 38 38 the board-pressers 42 42, as shown upon Figs. 1 and 2 of the drawings.

It will readily appear from the foregoing description when read in connection with the

drawings hereto appended and made a part of the specification and claims what is the operation of my invention, and further description of the manner of operating my improvement is deemed unnecessary.

It is obvious that many variations and changes in the details of construction and arrangement of my invention would readily suggest themselves to persons skilled in the art to which it appertains and still be within the spirit and scope of my invention.

I do not desire to confine this invention to the specific construction, combination, and arrangement of parts herein shown and described, and the right is reserved to make all changes in and modifications of the same as come within the spirit of this invention; but I do desire to secure as my invention all features of construction and equivalents thereof that come within the scope of my improvement, as herein shown and described, and illustrated upon the drawings appended hereto.

Having described my invention, what I do claim, and desire to secure by Letters Patent, is—

1. A table for gluing pieces of lumber for sounding-boards for pianos and other musical instruments comprising a frame having cross-braces and provided with side pieces and end pieces, one of said side pieces secured to the cross-braces, the other side piece fastened to a portion of said cross-braces having one end thereof free to move and means for pressing the said side pieces in parallel lines with each other.

2. A table for manufacturing sounding-boards for pianos and other musical instruments comprising an equilateral frame provided with cross-braces, side pieces and end pieces, one of said side pieces secured to the ends of the cross-braces, the other side piece fastened to opposite ends of a portion of the cross-braces and having one end thereof adapted to be sprung edgewise out of a straight line with the remaining portion thereof.

3. A table comprising a rectangular frame having cross-braces, side and end pieces, one of said end pieces rigidly fastened to the corresponding ends of the side pieces, one of said side pieces rigidly secured to the corresponding ends of the end pieces and one of said side pieces adapted to slide upon one end of one of said end pieces.

4. A table comprising a frame having cross-braces arranged in pairs, clamping-bars carrying adjustable buffers or abutments, said clamping-bars provided with notches 18, movable bridges provided with angled ends, clamping-screws carrying buffers or abutments whereby strips of lumber for sounding-boards are pressed together.

5. A table comprising a frame, standards secured to the table having pulleys fastened thereon, hand-levers hinged to the standards, board-pressers swiveled to the levers, cords

having weights fastened to one end thereof and the opposite ends secured to the levers, said cords adapted to pass over the pulleys and means for removably securing the hand-
5 levers to the table.

6. A table for making sounding-boards comprising a frame, clamping-bars carrying buffers, clamping-screws carrying buffers upon the ends thereof, supports for connecting the
10 clamping-bars and the clamping-screws, standards secured to the table having pulleys secured thereto, levers hinged to the standards,

swiveled board-pressers secured to the levers, cords having weights thereon connected to the levers and passing over the pulleys and means 15 for removably fastening the levers to the table.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALFRED DOLGE.

Witnesses:

ANNA MORGAN,
S. A. LAVENDER.