E. LAUTENBACH.

COMBINATION TABLE AND IRONING BOARD.

APPLICATION FILED OCT. 10, 1916.

1,244,619. Patented Oct. 30, 1917.

3 SHEETS—SHEET 1.

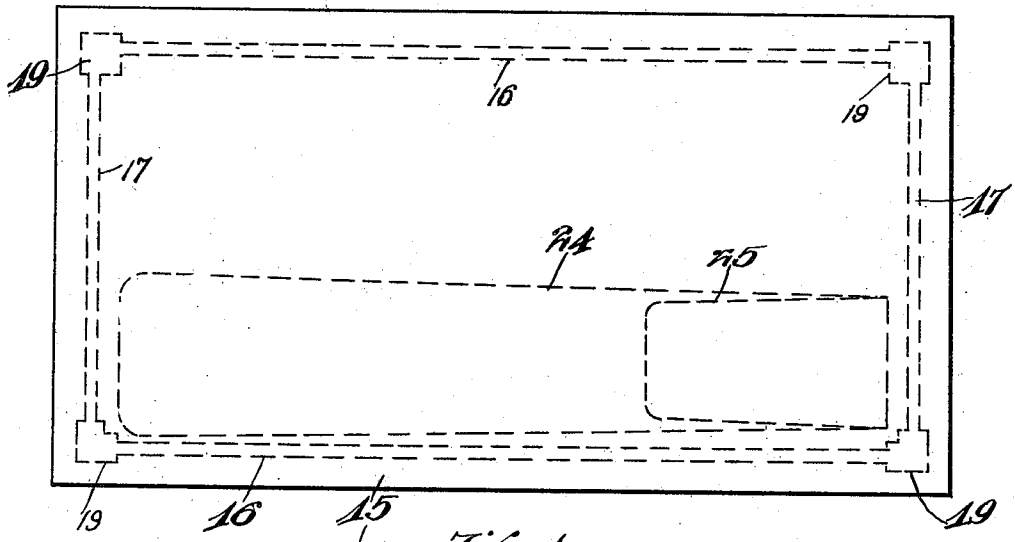


Fig. 1.

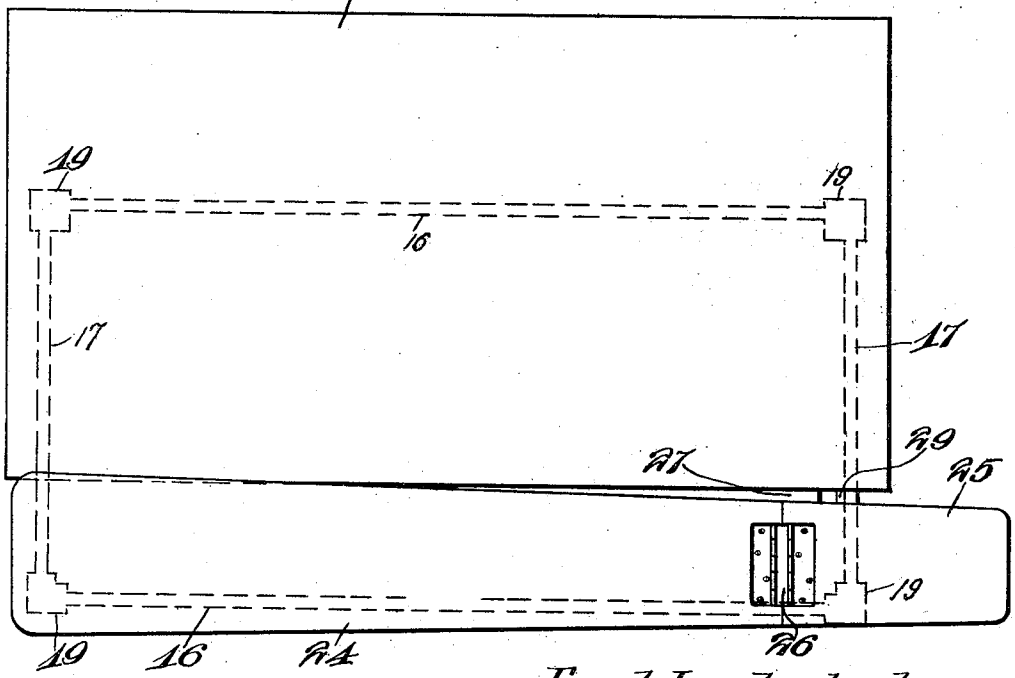


Fig. 2.

Evert Lautenbach

INVENTOR.

BY Wilson & Thomas

ATTORNEYS.

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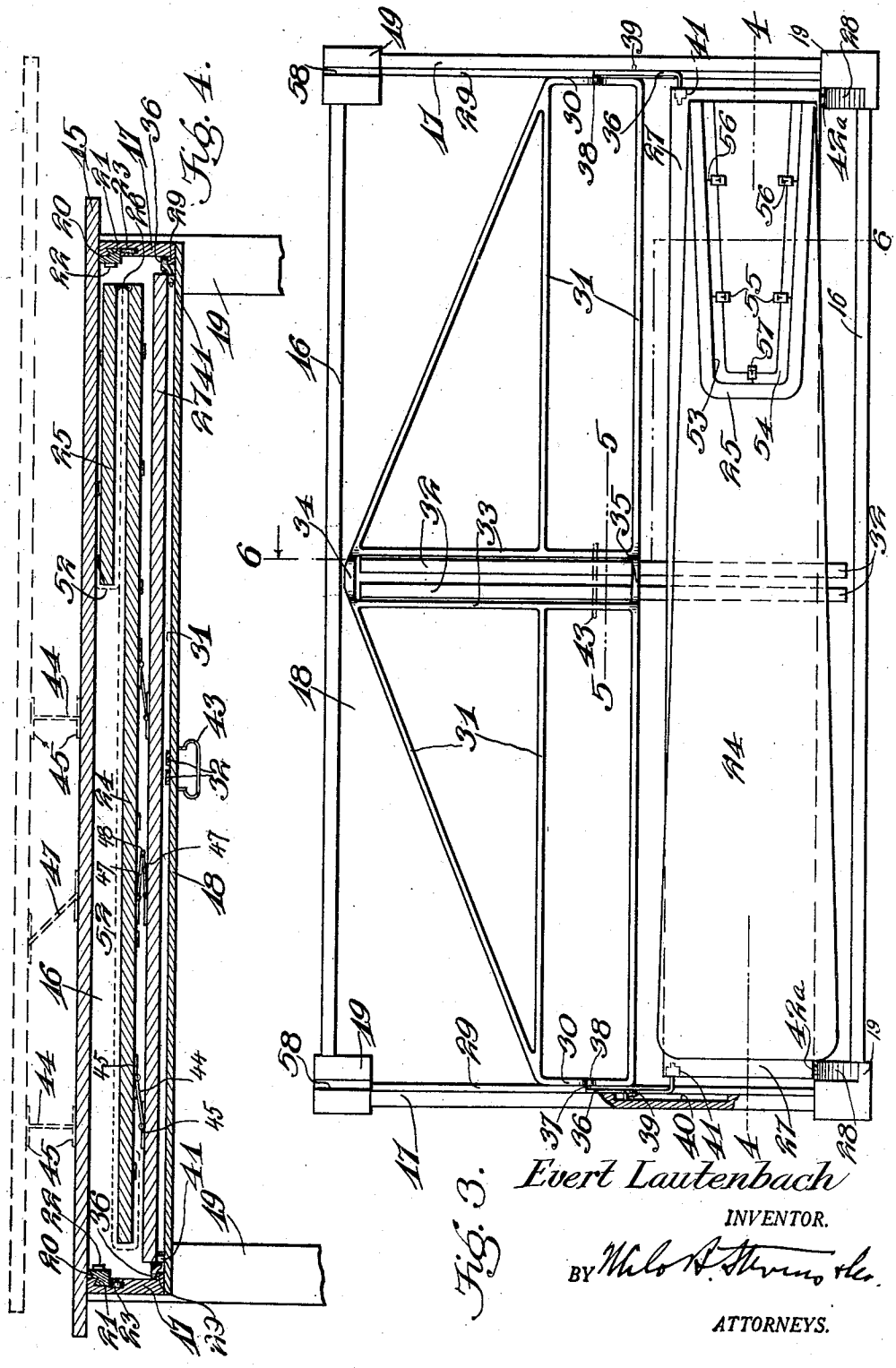


Fig. 4.

Fig. 3.

Evert Lautenbach

INVENTOR.

BY Wilson A. Stevens & Co.

ATTORNEYS.

E. LAUTENBACH.

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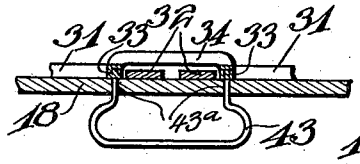


Fig. 5.

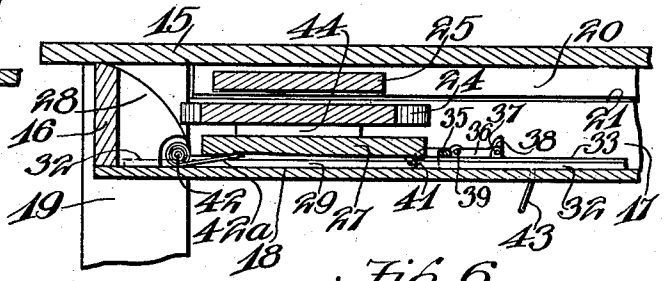


Fig. 6.

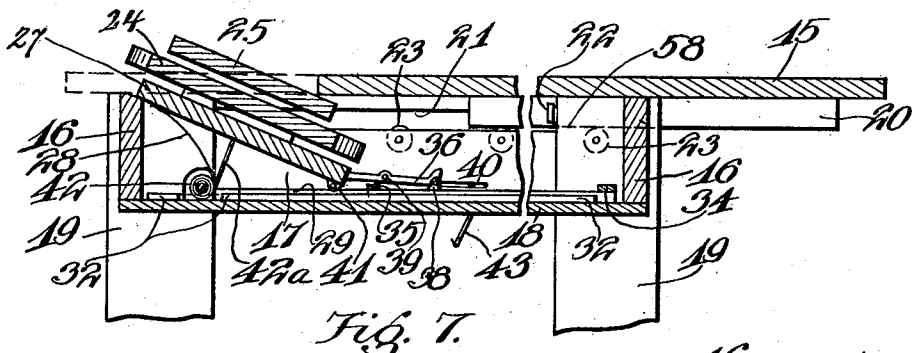


Fig. 7.

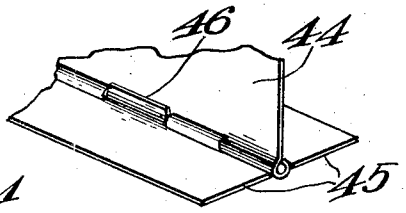


Fig. 9.

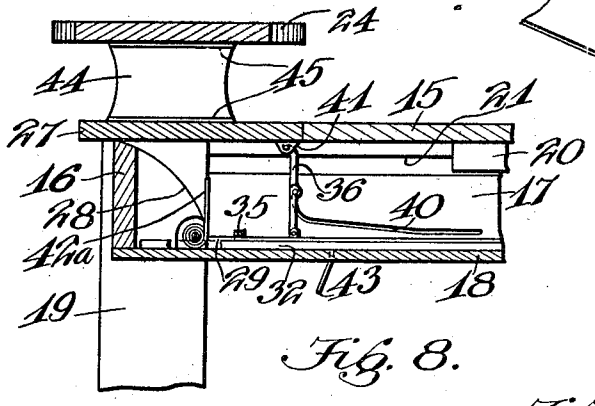


Fig. 8.

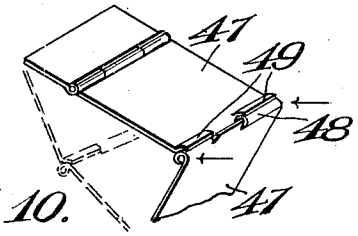


Fig. 10.

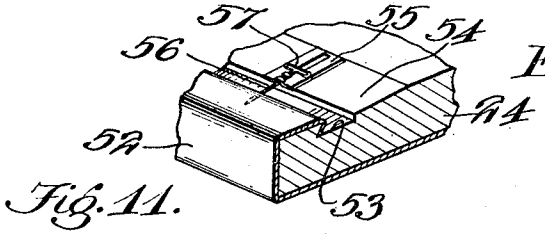


Fig. 11.

Evert Lautenbach.

INVENTOR.

BY Miller & Thomas

ATTORNEYS.

UNITED STATES PATENT OFFICE.

EVERT LAUTENBACH, OF CHICAGO, ILLINOIS.

COMBINATION TABLE AND IRONING-BOARD.

1,244,619. Specification of Letters Patent. Patented Oct. 30, 1917.

Application filed October 10, 1916. Serial No. 124,880.

To all whom it may concern:

Be it known that I, EVERT LAUTENBACH, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in Combination Tables and Ironing-Boards, of which the following is a specification.

This invention relates to ironing boards which are combined with a table having a compartment in which the board is housed when not in use.

The invention has for its object to provide a structure of the kind stated having novel and improved means for supporting the ironing board and manipulating the same to take it out of the compartment and place it in position for use.

The object stated is attained by means of a combination and arrangement of parts to be hereinafter described and claimed, and in order that the same may be better understood, reference is had to the accompanying drawings forming a part of this specification.

In the drawings,

Figure 1 is a plan view of the device;

Fig. 2 is a similar view showing the ironing board extended into position for use;

Fig. 3 is a plan view of the device partly in section and with the table top removed;

Fig. 4 is a cross section on the line 4—4 of Fig. 3;

Fig. 5 is a cross section on the line 5—5 of Fig. 3;

Fig. 6 is a cross section on the line 6—6 of Fig. 3;

Fig. 7 is a view similar to Fig. 6 but showing the ironing board in another position;

Fig. 8 is a view similar to Fig. 7 showing the ironing board fully extended into position for use;

Figs. 9 and 10 are details in perspective showing certain hinge connections, and

Fig. 11 is a detail in perspective and section showing a means for securing the cover of the ironing board.

Referring specifically to the drawings, 19 denotes the four legs of a table, at the top of which is a compartment which is closed by the table top 15. The compartment is composed of side walls 16, end walls 17 and a bottom 18, and it is of sufficient depth to accommodate the ironing board to be presently described. The table top 15 is slidably mounted on the compartment so that it may be slid back far enough to obtain access to the interior of the compartment, and permit the removal of the ironing board therefrom.

In the end walls 17, inside the compartment, are longitudinal grooves 21 in which slidably seat rails 20 fixed to and depending from the bottom of the table top 15, these rails and grooves serving to guide the table top in its sliding movement. The grooves are undercut and the rails are correspondingly shaped. Stops 22 on the rails prevent the table top from being slid too far. The grooves have rollers 23 engageable by the rails to ease the sliding operation.

The ironing board is composed of a main section 24 and a foldable end section 25, these sections being connected by a three-leaved hinge 26, the intermediate leaf of the hinge serving to space the end section from the main section when it is folded over above the same as shown in Fig. 4.

The ironing board is carried by a support or base board 27 movable into and out of the table compartment. The section 24 of the ironing board is connected to the base board, a special hinge construction to be presently described being provided. The base board and the ironing board extend in the direction of the length of the table. The table legs 19 extend into the table compartment, and the legs on one side of the table, in the compartment, are cut away to form curved inclines 28 adjacent to which the ends of the base board 27 are located and with which inclines said ends are engageable.

On the inner faces of the compartment end walls 17, at the bottom thereof, are rabbets 29 between which slidably seat the end rails 30 of a pusher frame 31 of triangular shape. This frame is of skeleton form and rests on the compartment bottom 18. Guides 32 are also provided for the intermediate portion of the frame, the same coöperating with cross bars 33 of the frame. The guides 32 are wood or metal rails suitably secured to the compartment bottom 18. The cross bars 33 are connected by arches 34 and 35 of sufficient height to clear the guides 32.

On each rabbet 29 is slidably mounted a

rod 36 having at one end a side pin 37 seating in a bearing 38 on the side bar 30 of the frame 31. Intermediate its ends, the rod has a side pin 39 slidably seating in a longitudinal groove 40 in the end wall 17. The other end of the rod has a lateral bend which seats in a bearing 41 at the inner corner of the base board 27. The rods 36 therefore provide a link connection between the base board 27 and the pusher frame 31.

When the frame 31 is pushed toward that side of the table where the ironing board 24 lies, the base board 27 is pushed forward, and as the latter does not rest on the compartment bottom 18, the frame may slide under said board. During the forward movement of the base board 27, its forward ends ride up the inclines 28 and the board is therefore elevated. The rear end of the board also rises as the grooves 40 are inclined (see Fig. 8). The pins 39 slide along the grooves 40, and by reason of the inclines of the latter the rods 36 swing from a horizontal to a vertical position, the pins being the pivotal points about which the rods swing. In their vertical position, the rods 36 act as props to hold up the base board at its rear edge. Before the base board is advanced and elevated, the table top 15 must be pushed back far enough to leave the top of the compartment uncovered for a distance corresponding to the width of the base board. At the end of the forward and upward movement of the base board, the latter is flush with the table top 15, and it is supported in this position at its forward edge, by resting on the top of the compartment wall 16, the rear portion of the board being held up by the props 36 as hereinbefore described.

To aid the rise of the base board 27, auxiliary lifting devices are provided, arranged as follows: A recess is made in the side of the legs 19 adjacent to the inclines 28. In each of these recesses is housed a spiral spring 42 of contracting tendency. The free end of the spring is formed into a straight arm 42ª engaging the under side of the base board. In its lowered position, the base board depresses the spring arm 42ª, the latter being under tension, and as the board moves forward and upward, the arm assists in the upward movement as its tendency is to swing upward. At the limit of the upward movement of the base board, the spring arm assumes an erect position and has no further function, and when the board is lowered back into the compartment, the arm is forced back to its original position.

In order to facilitate the operation of the pusher frame 31, the cross bars 33 thereof are provided with a depending hand grip 43 having shanks which pass loosely through longitudinal slots 43ª in the compartment bottom 18. Thus, the hand grip is accessible from the bottom of the table, and it may be drawn forward or pushed back to operate the pusher frame.

With the base board 27 swung out of the compartment, and seating flush with the table top 15, the ironing board is now also on the outside of the compartment, above the base board, and ready for adjustment into position for use. The next step is to swing the ironing board section 25 down level with the main section 24, after which the latter is raised to come into vertically spaced relation to the base board. A special hinge construction is provided for connecting the ironing board to the base board. Two of these hinges are provided, and they are constructed to serve also as props for holding the ironing board above the base board. Each of these hinges comprises a leaf 44 pivoted at its ends to base plates 45, one of which latter is fixed to the bottom of the ironing board and the other to the top of the base board. The hinge has also been designed to permit only a 90 degree swing, one of the plates 45 having stop flanges 46 against which the leaf 44 abuts when it is extending perpendicularly between the base board and the ironing board, as shown dotted in Fig. 4, in which position the leaf acts as a prop to hold the two boards in vertically spaced position.

To lock the ironing board 27 in elevated position, a toggle device is provided, consisting of two toggle levers 47 pivotally connected at one end as shown at 48, and at their other ends to the ironing board and the base board respectively. The toggle levers are folded when the ironing board is down, and when it is raised they unfold and come into alinement and swing until they extend diagonally between the ironing and base boards, as shown dotted in Fig. 4. Stop flanges 49 limit the flexure of the toggle levers beyond this position.

The ironing board has the usual cloth covering 52, shown dotted in Fig. 4, the hinge connection between the ironing board and the base board 27 spacing the two boards a sufficient distance to accommodate the covering. The edges of the covering are wrapped over the edges of the ironing board to close in on the under side of the latter. The bottom of the ironing board has an undercut longitudinal groove 53 to take the edge of the covering as shown in Fig. 11. Along one side of the groove the board has a slight incline 54 on which are mounted plates 55 carrying slidable cross pins 56 having a finger hold 57. These pins are designed to be advanced across the groove and embedded in the side wall thereof after passing through the edge portion of the covering seating against said groove wall. A suitable number of these securing devices will be provided.

The top of the legs 19, at the remote side of the table, have grooves 58 to permit passage of the rails 20.

I claim:—

1. The combination of a table having a top compartment and a top closing said compartment, said top being movable to leave a top opening to the compartment, an ironing board seating in the compartment, a support for the ironing board, a foldable connection between the support and the ironing board, and means for elevating the support to the top opening of the compartment, the aforesaid foldable connection between the support and the ironing board being adjustable to hold the ironing board elevated above the support in position for use.

2. The combination of a table having a top compartment and a top closing said compartment, said top being movable to leave a top opening to the compartment, an ironing board seating in the compartment, a support for the ironing board, a foldable connection between the support and the ironing board, means for elevating the support to the top opening of the compartment, the foldable connection between the support and the ironing board being adjustable to hold the ironing board elevated above the support in position for use, and means for locking the ironing board in such position.

3. The combination of a table having a top compartment and a top closing said compartment, said top being movable to leave a top opening to the compartment, an ironing board seating in the compartment, a support for the ironing board, elevating inclines in the compartment engageable by the support and leading to the aforesaid opening, and a pusher engageable with the support to advance the same up the inclines and into the opening.

4. The combination of a table having a top compartment and a top closing said compartment, said top being movable to leave a top opening to the compartment, an ironing board seating in the compartment, a support for the ironing board, elevating inclines in the compartment engageable by the forward portion of the support and leading to the aforesaid opening, a slidable pusher in the compartment, and a link connection between the pusher and the rear portion of the support, said connection having side pins, and the compartment wall having grooves in which the pins slidably seat, said grooves having an upward incline.

5. The combination of a table having a top compartment and a top closing said compartment, said top being movable to leave a top opening to the compartment, an ironing board seating in the compartment, a support for the ironing board, elevating inclines in the compartment engageable by the forward portion of the support and leading to the aforesaid opening, a slidable pusher in the compartment, and a link connection between the pusher and the rear portion of the support, said connection having side pins, and the compartment wall having grooves in which the pins slidably seat, said grooves having an upward incline, the support resting on the front wall of the compartment when elevated to the opening, and the link connection extending perpendicularly between the pusher and the rear portion of the support in the last-mentioned position of the latter.

In testimony whereof I affix my signature.

EVERT LAUTENBACH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."