

Feb. 4, 1930.

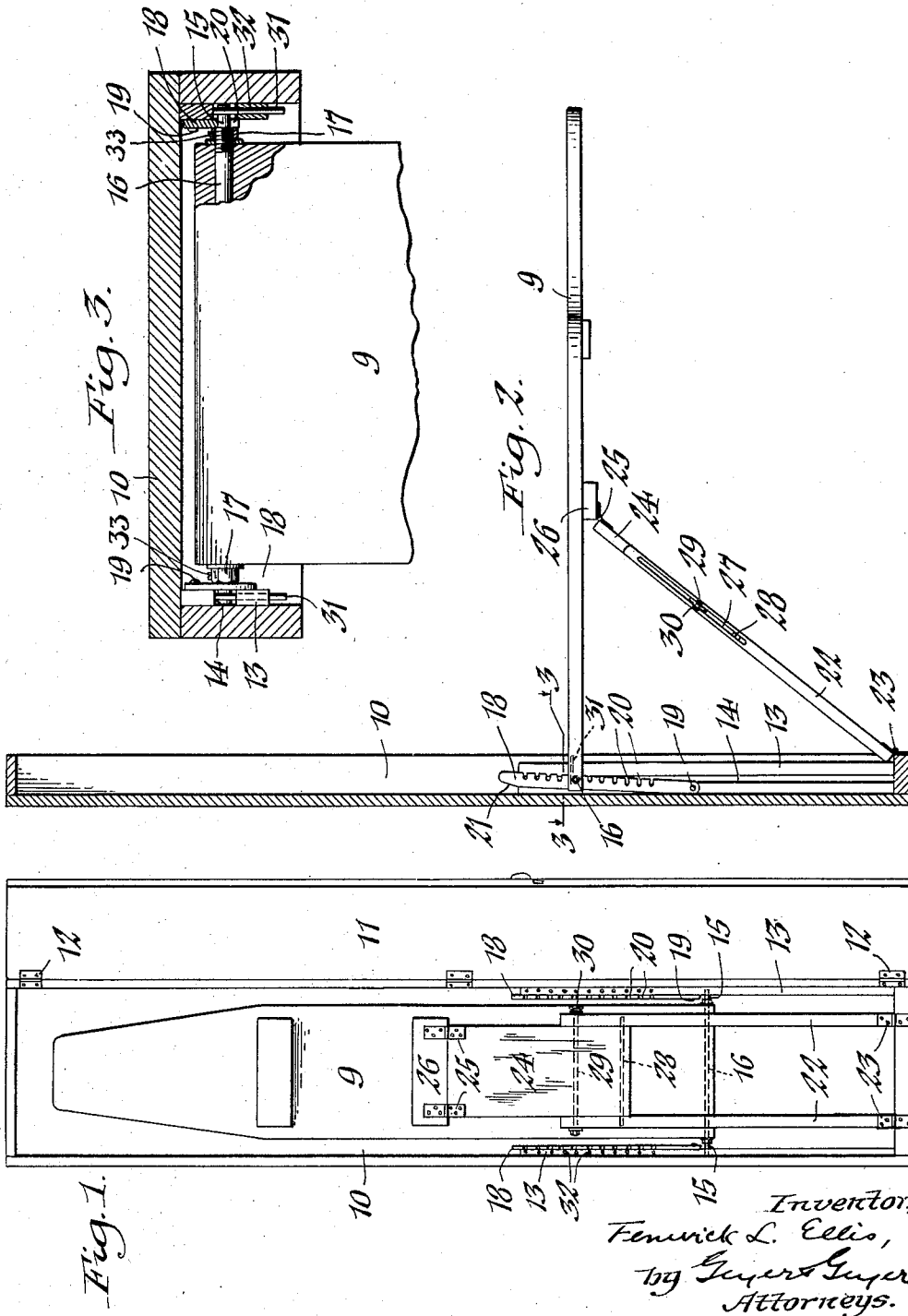
F. L. ELLIS

1,745,530

IRONING BOARD

Filed Feb. 8, 1928

2 Sheets-Sheet 1



Inventor,
Fenwick L. Ellis,
by Guyer & Guyer
Attorneys.

Feb. 4, 1930.

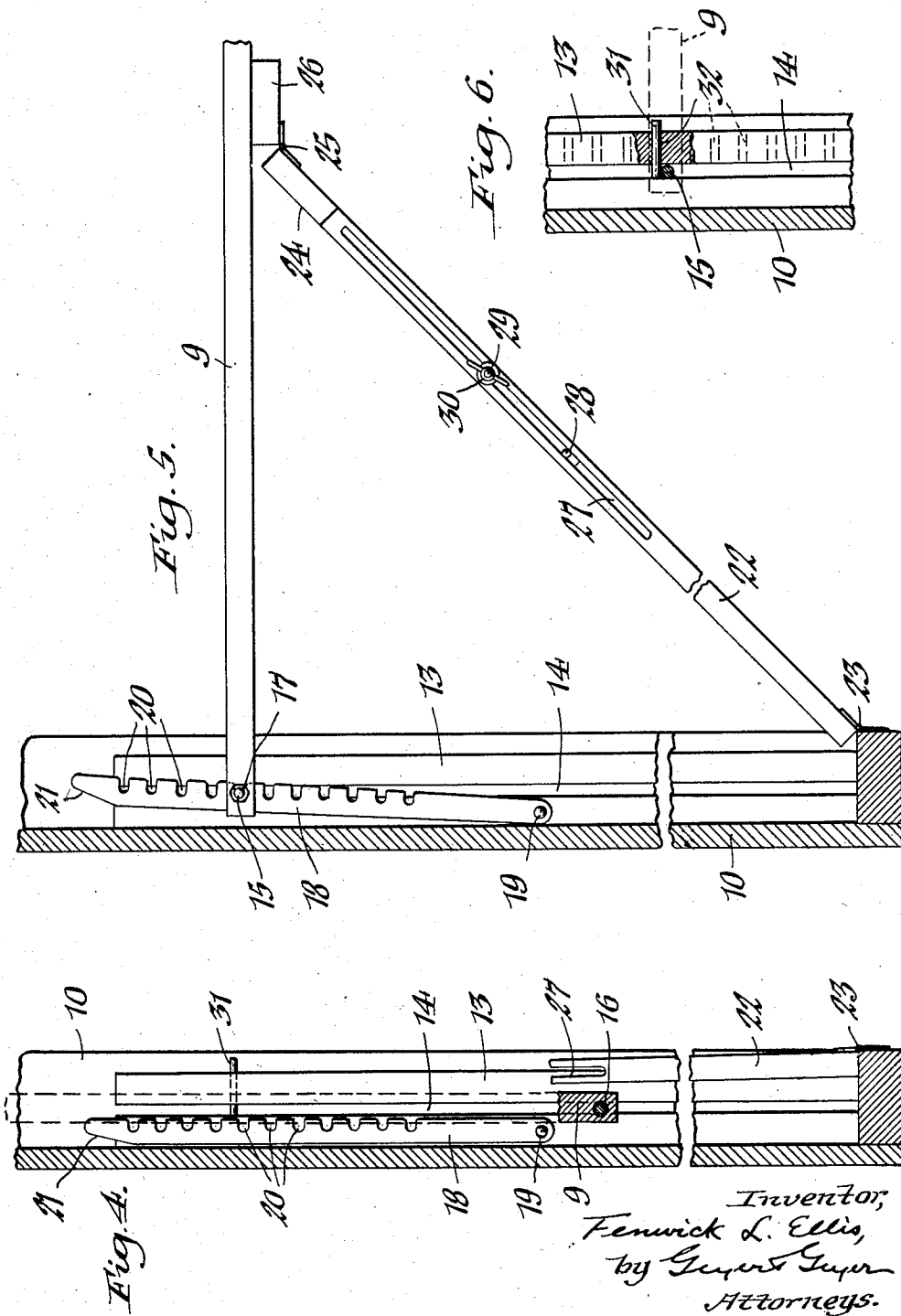
F. L. ELLIS

1,745,530

IRONING BOARD

Filed Feb. 8, 1928

2 Sheets-Sheet 2



UNITED STATES PATENT OFFICE

FENWICK L. ELLIS, OF DARIEN CENTER, NEW YORK

IRONING BOARD

Application filed February 8, 1928. Serial No. 252,746.

This invention relates to improvements in ironing boards and more particularly to those of the type which are foldable into and out of a closet or cabinet.

5 One of its objects is the provision of an ironing board of this character having reliable and efficient means for supporting it firmly at a plurality of elevations to suit the user.

10 A further object of the invention is to provide a foldable ironing board which is simple, compact, and inexpensive in construction and which can be easily and readily folded and unfolded with a minimum of effort into
15 and out of its operative position.

A still further object is to so organize and arrange the different elements of the device as to render the board firm and stable in its unfolded operative position.

20 In the accompanying drawings:—

Figure 1 is a front elevation of a cabinet showing my improved board housed therein in its folded position. Figure 2 is a vertical section taken through the cabinet and showing the ironing board in its unfolded position for use. Figure 3 is an enlarged fragmentary horizontal section taken in the plane line 3—3, Figure 2. Figure 4 is an enlarged fragmentary vertical section showing the position of the parts in the folded position of the ironing board. Figure 5 is a similar view showing the position of the parts in the unfolded position of the board. Figure 6 is a detailed sectional view showing the means
35 for arresting the board at a desired elevation.

Similar characters of reference indicate corresponding parts throughout the several views.

By way of example, my improved board
40 9 has been shown in connection with a closet or cabinet 10 of any appropriate construction and intended to be built into the wall of a room, the cabinet having a horizontally-swinging door 11 hinged at 12 thereto. In its
45 lower end and at opposite sides thereof, the cabinet has guide strips 13, 13 which serve to guide the board during its folding and unfolding movements into and out of the cabinet. These strips have vertical ways or
50 slots 14 for receiving the projected ends 15

of a horizontal pivot bolt 16 passing through the rear end of the board, such ends constituting journals or trunnions on which the board may swing vertically. As shown in
55 Figure 3, the ends of this pivot bolt are threaded to receive nuts 17 for clamping the same rigidly to the board and the trunnions 15 of such bolt are somewhat smaller in diameter than the threaded portion thereof. Fulcrumed on the opposing inner faces of the
60 strips 13 and shiftable laterally onto and out of the plane of the pivot bolt 16 are notched supports or arms 18 which function to support the inner end of the board at any desired elevation. As shown in Figures 2 and
65 5, these arms are fulcrumed at their lower ends on pivot pins 19, the latter being located in rear of the guide slots 14 of the strips 13 to enable the arms to assume a position to the rear of the guide slots, as shown in Figure
70 4. The forwardly-facing notches 20 of the supporting arms are arranged substantially horizontal and are disposed at suitable intervals to receive the trunnions 15 for releasably
75 sustaining the board at the desired height. In the folded position of the board within the cabinet the arms 18 rest against the rear wall of the latter, while in its unfolded operative position these arms assume a forwardly inclined position and overlie the guide slots 14
80 in the manner shown in Figure 5. The upper rear edge of each supporting arm is preferably chamfered, as shown at 21, to facilitate shifting it into locking engagement with the pivot bolt of the board.
85

The front end of the board is firmly and rigidly supported by a foldable brace consisting of a pair of laterally spaced lower members 22 hinged at 23 to the lower end of the cabinet 10, and an upper member extending downwardly between the pair of lower members and hinged at 25 to a transverse cleat 26 secured to the underside of the ironing board 9. The lower brace members have longitudinal slots 27 for receiving transverse
90 guide pins 28, 29 carried by the upper brace members, the pin 29 having nuts 30 applied thereto for clamping the foldable brace in a set position.

For the purpose of positively limiting the 100

upward travel of the inner end of the board when moving it from its upright inoperative position to its horizontal operative position and thereby permit the board to assume a definite predetermined height to suit the user, an adjustable stop preferably in the form of a pin 31 is provided, which is adapted to extend across the corresponding guide slot 14 in the path of the pivot bolt trunnions 15. A vertical row of openings 32 extending transversely through the front portion of each guide strip 13 is provided and the stop pins 31 are insertable through one or another of these openings for effecting the limitation of the upward travel of the board. As shown in Figure 4, the openings 32 are so arranged that their bottoms are substantially on a horizontal line with the upper edges of the companion notches in the bars.

In moving the board from its folded position within the cabinet to its unfolded position ready for use, it is simply swung outwardly and downwardly, the pivot bolt 16 traveling upwardly in the guide slots 14 until the same encounters the stop pin or pins 31, which automatically predetermine the elevation to which the board is to correspond. The supporting arms 18 are now swung forwardly to bring their registering notches into locking engagement with the trunnions 15 of the pivot bolt. During the swinging movement of the board to this position, the brace 22, 24 is swung outwardly to the position shown in Figures 2 and 5. After the user determines the height at which he desires the board set, he places the stop pins 31 in the corresponding set of openings 32 and, with the board locked, adjusts the brace members 22, 24 accordingly, bringing the board to a level position. After once making these adjustments the board will automatically assume the desired position upon swinging it outwardly and downwardly from the cabinet 10, it being only necessary, after thus pulling it from the cabinet, to shift the supporting arms 18 forwardly to bring the companion notches 20 into engagement with the trunnions 15 of the pivot bolt 16.

Set screws 33 may be employed for locking the nuts 17 on the ends of the pivot bolt 16.

I claim as my invention:—

1. An apparatus of the character described, comprising a cabinet provided in its opposite sides with upright guideways, an ironing board movable into and out of the cabinet and having trunnions at its inner end engaging said guideways, shiftable supporting means having a series of notches therein engageable with said trunnions for sustaining the inner end of the board at a plurality of different elevations, and a brace for supporting the front end of the board.

2. An apparatus of the character described, comprising a cabinet provided in its opposite sides with upright guide ways, an ironing

board movable into and out of the cabinet and having trunnions at its inner end engaging said guide ways, means for supporting the outer end of the board, and supporting arms fulcrumed on the opposite sides of the cabinet for detachable engagement with said trunnions.

3. An apparatus of the character described, comprising a cabinet provided in its opposite sides with upright guideways, an ironing board movable into and out of the cabinet and having trunnions at its inner end and engaging said guideways, means for supporting the outer end of the board, and notched supporting arms fulcrumed on the opposite sides of the cabinet for swinging movement into and out of interlocking engagement with said trunnions.

4. An apparatus of the character described, comprising a cabinet provided in its opposite sides with upright guide ways, an ironing board movable into and out of the cabinet and having trunnions at its inner end engaging said guide ways, means for supporting the outer end of the board, and notched supporting arms fulcrumed at opposite sides of the cabinet and shiftable laterally into and out of the plane of the guide ways for detachable engagement with said trunnions, the notches of said arms being disposed vertically for supporting the board at different elevations.

5. An apparatus of the character described, comprising a cabinet provided in its opposite sides with upright guide ways, an ironing board movable into and out of the cabinet and having trunnions at its inner end slidably engaging said guide ways, means for supporting the outer end of the board, notched supporting arms fulcrumed at opposite sides of the cabinet for movement laterally of said guide ways for detachable engagement with said trunnions whereby the board may be supported at a plurality of different elevations, and a stop for limiting the upward sliding movement of the trunnions in their guide ways at a point to bring said trunnions into register with companion notches in said supporting arms.

6. An apparatus of the character described, comprising a cabinet provided in its opposite sides with upright guide ways, an ironing board movable into and out of the cabinet and having trunnions at its inner end slidably engaging said guide ways, means for supporting the outer end of the board, adjustable means for limiting the upward travel of said trunnions in their guide ways, and means engageable with the trunnions for detachably supporting the inner end of the board at a plurality of different elevations.

7. An apparatus of the character described, comprising a cabinet provided in its opposite sides with upright guide ways, an ironing board movable into and out of the cabinet and having trunnions at its inner end slidably

engaging said guide ways, means for supporting the outer end of the board, stops arranged to extend across and adjustable lengthwise of the guide ways for limiting the upward travel of said trunnions, and notched supporting arms fulcrumed on the opposite sides of the cabinet for vertically-swinging movement into and out of interlocking engagement with said trunnions.

5
10 8. An apparatus of the character described, comprising a cabinet, guide members applied to the opposite sides of the cabinet and including upright slots, an ironing board movable into and out of the cabinet and having trunnions at its inner end slidable in said slots, notched supporting arms fulcrumed on said guide members for vertically-swinging movement transversely of the slots into and out of interlocking engagement with said trunnions, said guide members having a vertical row of openings therein, stop pins engageable with one or another of said openings and arranged to extend across the respective slots for limiting the upward travel
15
20
25 of said trunnions, and an adjustable brace hingedly connecting the outer end of the board with the lower end of the cabinet.

9. An apparatus of the character described, comprising a pair of laterally-spaced upright supports having vertical guideways therein, an ironing board fulcrumed to swing vertically between said supports and having trunnions at its inner end engaging said guide ways, means for supporting the outer end of the board, and sustaining members for the inner end of the board mounted on said upright support for movement into and out of the plane of the guideways and including means for detachably receiving said trunnions.
30
35
40

Darien Center, N. Y., Feb. 4, 1928.

FENWICK L. ELLIS.

45

50

55

60

65