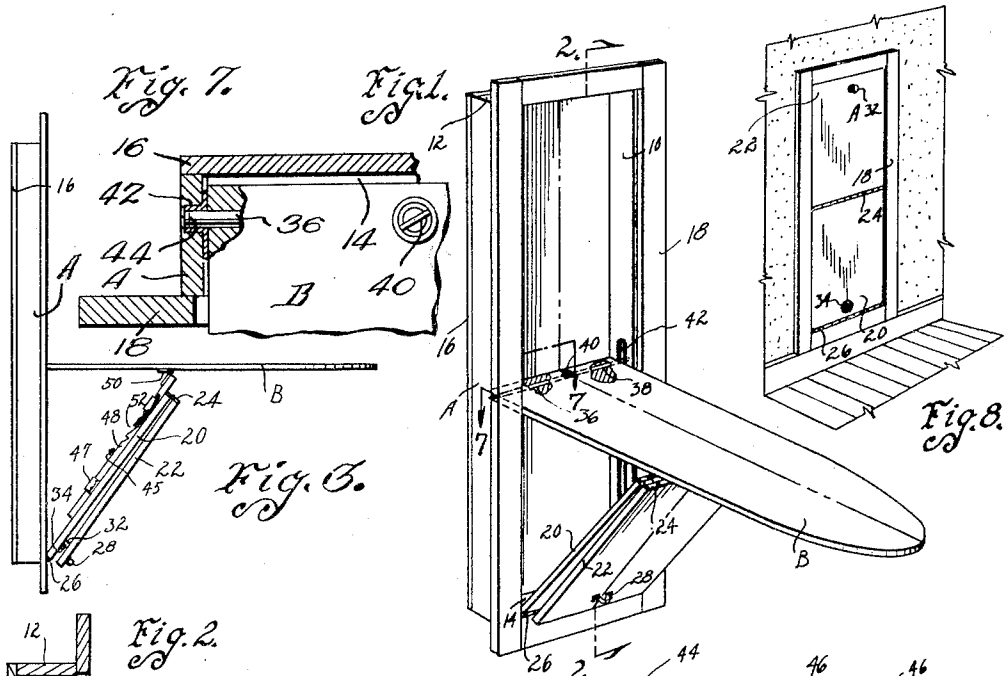
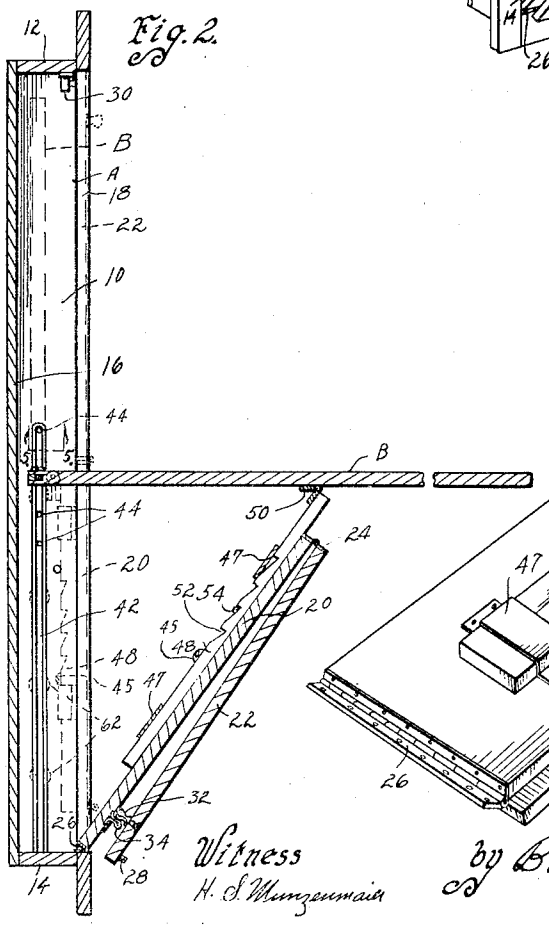
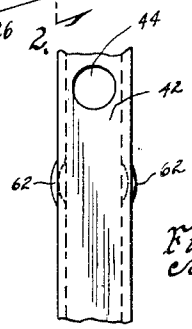
March 17, 1931. S. MADSEN 1,796,569

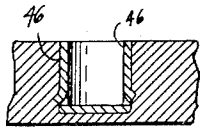
IRONING BOARD AND CASE THEREFOR

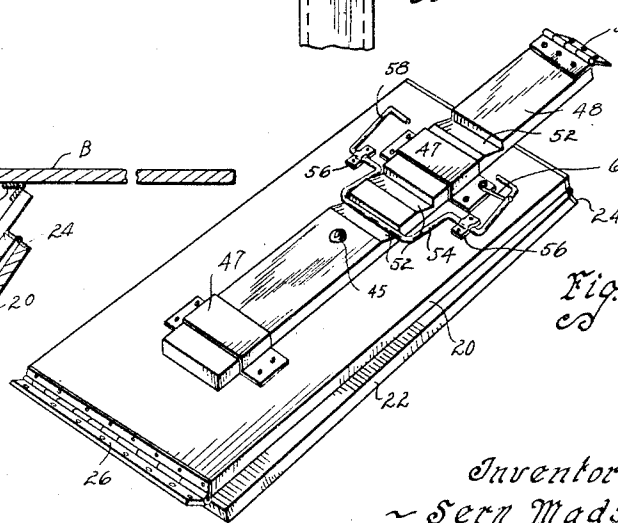
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UNITED STATES PATENT OFFICE

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IRONING BOARD AND CASE THEREFOR

Application filed December 18, 1929. Serial No. 414,945.

The object of my invention is to provide an ironing board which is simple, durable and comparatively inexpensive to manufacture.

A further object of my present invention is to provide an arrangement for supporting an ironing board within a case therefor in such a manner as to prevent it from accidentally falling down, so that there will not be any damage from the supports becoming displaced.

Another object is to provide an ironing board structure which is always ready for instant use and in which a convenient means for height adjustment is provided whereby in the opening operation of the case and setting up of the board, adjustment for the height of the board can be readily made or the board can be adjusted after once being set up.

Another object is to provide an ironing board and case presenting a neat appearance when the case is closed and in which the door of the case is not fastened to the board in such a manner as to prohibit the lacing of cloth covers to the board.

Another object is to provide a construction in which the door for the case is out of the way when the ironing board is extended in position for use.

More particularly it is my object to provide a vertically arranged ironing board case for an ironing board of substantially the same length as the case, the board being mounted therein and concealed by a two part door, the door for the lower half being hinged to the bottom of the case and the two parts of the door being hinged together substantially mid-way between its ends, the ironing board having its inner end vertically slidable and pivotally associated with the side jambs of the case and the door having a brace member hinged to the underside of the ironing board intermediate the ends thereof.

Still a further object is to provide channel members to receive pintles on one end of the ironing board, with a novel means for securing the channel members within grooves formed in the side jambs of the case.

With these and other objects in view my invention consists in the construction, arrangement and combination of the various parts of my device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view of the ironing board and case therefor showing the ironing board in extended position for use.

Figure 2 is a vertical sectional view of Figure 1 on a slightly enlarged scale.

Figure 3 is a side elevation of the board and case.

Figure 4 is a perspective view of a door for the case showing a brace member slidably associated therewith.

Figure 5 is an enlarged sectional view on the line 5—5 of Figure 2 illustrating a cross-sectional view of a channel member and the means for securing it in position within a groove.

Figure 6 is a bottom plan view of a portion of the channel illustrated in Figure 5.

Figure 7 is a sectional view on the line 7—7 of Figure 1; and

Figure 8 is a perspective view of the case mounted relative to a wall and showing it in closed position.

On the accompanying drawings I have used the reference character A to indicate an ironing board case and the reference character B to indicate the ironing board. The case A consists of a pair of side jambs 10, a head jamb 12, a foot jamb 14, a back wall 16, and casing members 18. The ironing board case A is adapted to be built into a wall 18 as illustrated in Figure 8, or if desired it may be made to fit on the outside of a finished wall.

A two part door for the case A consists of a bottom portion 20, and a top portion 22. The portions 20 and 22 are hinged together by a hinge member 24. The lower end of the portion 20 is hinged adjacent the bottom of the case A by a hinge member 26. The spring latch members 28 and 30 on the door portion 22 and head jamb 12 respectively coact with each other for retaining the door in closed position. A knob 32 is mounted on the outside of the door portion 22 for opening the

door. A spring latch 34 is mounted on the outside of the door portion 20 to coact with the knob 32 when the ironing board B is in use.

The ironing board B has transversely mounted pintle rods 36 and 38 in one end thereof. These are normally held by spring means and may be retracted slightly by a controlling knob 40. The details of construction of the pintle rods and knob 40 are fully illustrated in my copending application filed December 31, 1928, Serial Number 329,609 which issued into Patent No. 1,765,343 on June 17, 1930.

The outer ends of the pintle rods 36 and 38 are adapted for vertical sliding movement and also for pivotal movement within channel members 42 imbedded in vertical grooves 46, formed in the side jambs. The channel members 42 are preferably of sheet metal and are provided with spaced openings 44 for the pintle rods 36 and 38 to extend into.

The lower door member 20 is provided with a pair of brackets 47 in which the brace member 48 is slidably mounted. The upper end of the brace member 48 is hinged as indicated at 50 to the ironing board intermediate the ends thereof. The brace member 48 is provided with a plurality of spaced notches 52 with which a rod-like latch member 54 may coact. The latch member 54 (best shown in Figure 4) is pivotally mounted on the lower door member 20 by means of brackets 56 and has a pair of arms 58 either of which may be engaged by the operator for disengaging the latch member 54 from any one of the notches 56 with which the latch coacts. A spring 60 is arranged to exert an outward pressure on one of the arms 58 for causing the latch member to normally coact with one of the notches 52.

Assuming the ironing board to be in closed position as illustrated in Figure 8 and as shown by dotted lines in Figure 2, a screw head 45 rests against the lower bracket 47 and the latch member 54 does not coact with any of the notches 52 but lies against the brace 48 above the uppermost notch 52 therein. The knob 32 is first grasped for swinging the upper door portion 22 outward and down against the lower door member 20 until the knob 32 coacts with the spring latch 34. The top end of the board B is then swung outwardly from the case A a slight distance until its top end clears the case A whereupon the brace 48 may be adjusted as desired relative to the door member 20 by lifting the ironing board B vertically. The door members 20 and 22 and the brace 48 are then swung outwardly to an inclined position as the lower end of the board B is raised with a vertically sliding movement and the board B brought to a level position. The pintle rods 36 and 38 are then allowed to drop into the proper openings 44 of the channels 42.

The height of the board can thereafter be adjusted as desired by turning the knob 40 for retracting the pintle rods 36 and 38 from the openings 44 so that the inner end of the ironing board can be adjusted as desired. The outer end of the ironing board B is then adjusted until the board is level, whereupon the latch member 54 may be allowed to drop into the proper notch 52 and the ironing board will be supported in the desired position for use. In the event that the board is too high and must be lowered one of the arms 58 may be engaged and pushed toward the door member 20 for releasing the latch 54 from latching position so that the brace 48 may be adjusted after which the latch is released. In raising the board it can be merely lifted as the notches 52 are ratchet shaped and the brace can be pulled upwardly without depressing.

It will be noted that the brace member 48 is relatively narrow which facilitates the lacing of covers on the board, and that the board B is held against side sway by the pintle rods 36 and 38 and the hinge connection 26. Each of the metal channels 42 is secured in its respective groove 46 by cutting the flanges of the channel adjacent the web and bending such cut portions outwardly as indicated at 62. This cutting and bending operation may be performed at three or four places throughout the length of the channel, and the channel is thus securely held in position within the groove 46.

My ironing board and case present a neat appearance when in closed position, and when in open position for use the doors are not in the way. My ironing board is readily adjustable for height, and may be easily and quickly moved from concealed position to operation position and vice versa.

Some changes may be made in the construction and arrangement of the parts of my device without departing from the real spirit and purpose of my invention and it is my intention to cover by my claims, any modified forms of structure or use of mechanical equivalents, which may be reasonably included within their scope.

I claim as my invention:

1. In a device of the character disclosed, a case, an ironing board therein and a two part vertical door forming a closure for said case, the lower end of the lower part of said door being hinged to the case, the upper end of such lower part being hinged to the ironing board, the upper part of said door being pivoted to said lower part and foldable against the lower part thereof and the lower end of the ironing board being vertically slidable relative to said case.

2. In a device of the character disclosed, a case, the side jambs of said case being vertically grooved, an ironing board having pintles at one end to slide in said grooves, a

two part door comprising upper and lower parts, the bottom of the lower part being hinged to said case and the top of said lower part being hinged to the bottom of the upper part so that the upper part is foldable against the lower part and a sliding brace mounted on said door and having its upper end hinged to said ironing board, means for holding said brace in adjusted positions relative to the door and means for holding the pintles of the ironing board in any position desired with respect to said grooves.

3. In a device of the character disclosed, a case, the side jambs of said case being vertically grooved, an ironing board having laterally projecting pintles for pivoting and sliding in said grooves, a door member fixedly hinged adjacent the bottom of said case to swing outwardly, a sliding member carried by the door member and having one end hinged to the ironing board and spring actuated means for locking said sliding member relative to said door member.

4. In a device of the class disclosed, a case, an ironing board and a two part adjustable support extending from the lower end of the case to the intermediate portion of the ironing board, one part of said support being hinged to the case and forming part of a door therefor and the other part being hinged to the board, said parts being slidably arranged and means for locking them in any desired position with respect to each other.

5. In a device of the class disclosed, a case, an ironing board and a two part adjustable support extending from the lower end of the case to the intermediate portion of the ironing board, one part of said support being hinged to the case and the other to the board, said parts being slidably arranged, and means for locking them in any desired position with respect to each other, said means comprising a plurality of spaced notches in one part and a locking member on the other and means to force said member to engage said notches.

6. The combination with a vertical case having a door therefor hinged at its lower end to the case and having a hinged joint at its center whereby the two halves of the door may be folded against each other when the door is in open position, of an ironing board having its center hingedly supported by the upper end of the lower half of said door and its inner end vertically slidable relative to said case and coacting means on said two halves of the door to retain them in position folded against each other.

7. The combination with a vertical case having a door therefor hinged at its lower end to the case and having a hinged joint at its center whereby the two halves of the door may be folded against each other when the door is in open position, of an ironing board, a brace member hingedly connected to the center thereof and slidably supported by the lower half of said door and the inner end of the ironing board being vertically slidable relative to said case.

SERN MADSEN.