Sept. 18, 1951 D. WOELKE 2,568,211

COMBINED MOUNTING FOR IRONING BOARDS AND IRONS

Filed May 14, 1948 2 Sheets-Sheet 1

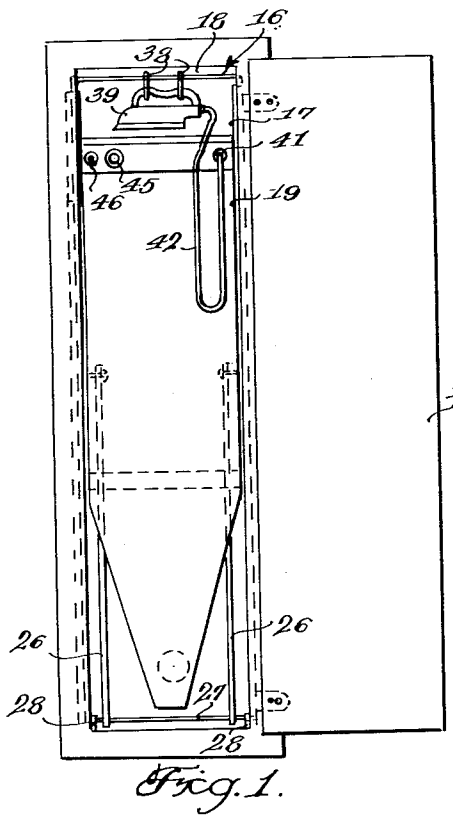


Fig. 1.

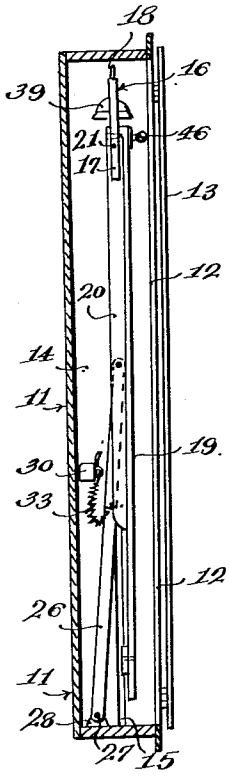


Fig. 2.

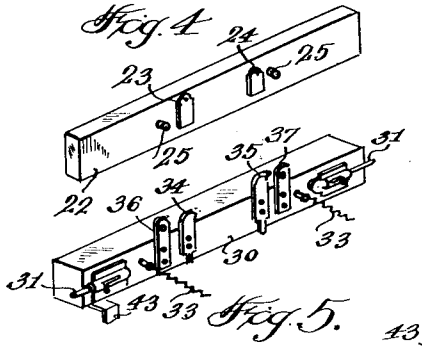


Fig. 4.

Fig. 5.

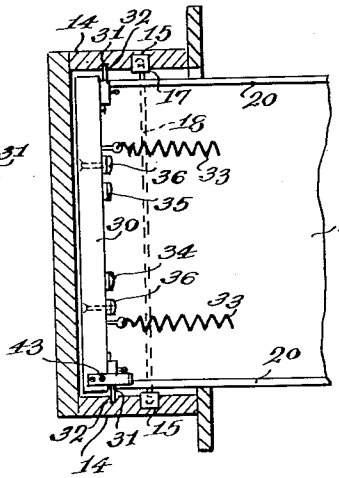


Fig. 3.

INVENTOR.

Dick Woelke

By John N. Randolph

ATTORNEY

Sept. 18, 1951 D. WOELKE 2,568,211

COMBINED MOUNTING FOR IRONING BOARDS AND IRONS

Filed May 14, 1948 2 Sheets-Sheet 2

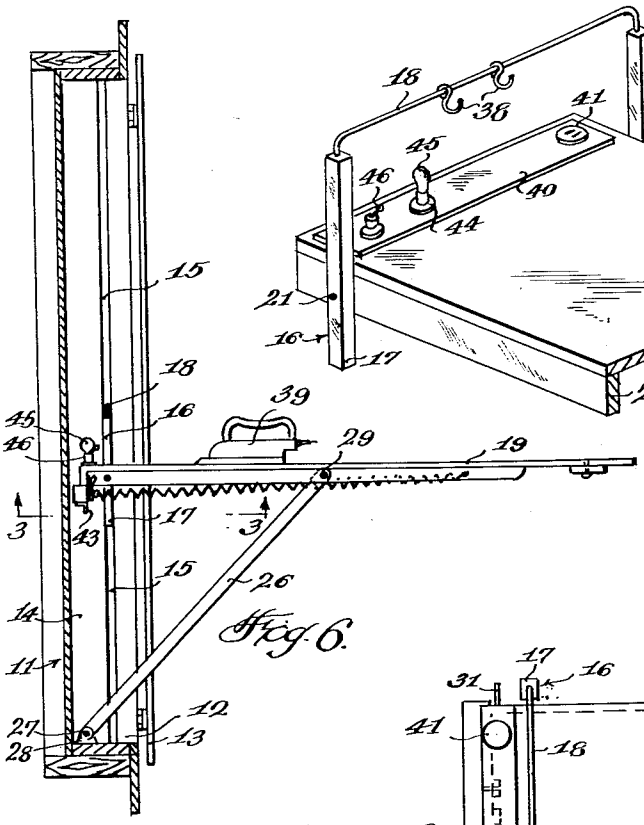


Fig. 6.

Fig. 8.

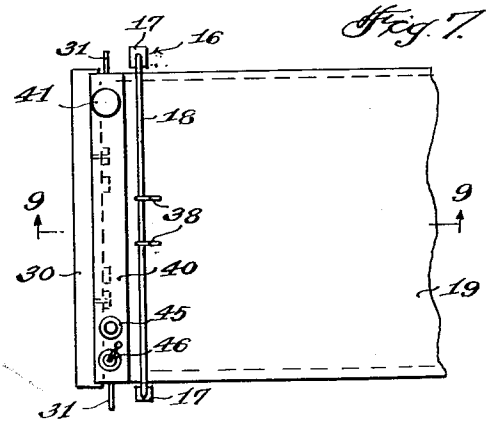


Fig. 7.

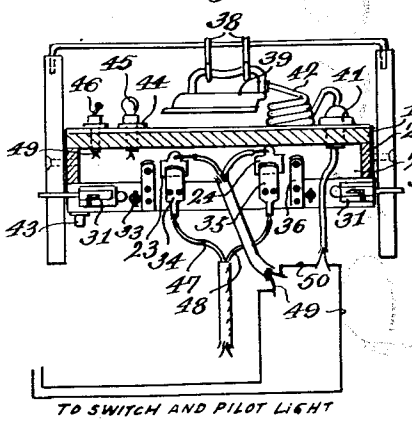


Fig. 10

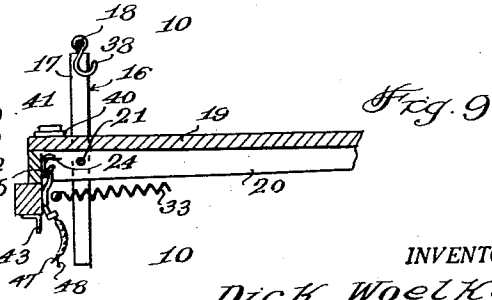


Fig. 9

INVENTOR.

Dick Woelke

BY John N. Randolph

ATTORNEY

Patented Sept. 18, 1951 2,568,211

UNITED STATES PATENT OFFICE

2,568,211

COMBINED MOUNTING FOR IRONING BOARDS AND IRONS

Dick Woelke, Edna, Kans.

Application May 14, 1948, Serial No. 27,126

5 Claims. (Cl. 38—107)

1

This invention relates to a novel mounting for an ironing board and iron and more particularly to a mounting including a cabinet especially adapted to be disposed in a wall surface and in which the ironing board and iron can be readily disposed when not in use.

More particularly, it is an aim of the invention to provide a novel mounting means for association with a wall cabinet for slidably and swingably supporting an ironing board and for slidably supporting an iron whereby the iron and ironing board may be readily moved from a nested position in the wall cabinet to an extended position with respect thereto or from said extended position back to a nested position.

Still a further and important object of the invention is to provide an electric circuit means in association with said mounting whereby the electric iron will be connected with a source of electric current when the ironing board is moved to an extended, operative position.

A further object of the invention is to provide a novel latch means for holding the ironing board in an extended position and for insuring electrical engagement of separable contacts of the electric circuit to the iron.

Various other objects and advantages of the invention will hereinafter become more fully apparent from the following description of the drawings, illustrating a presently preferred embodiment thereof, and wherein:

Figure 1 is a front elevational view showing a wall cabinet in an open position with the mounting means supporting the ironing board and electric iron in a nested position therein;

Figure 2 is a transverse vertical sectional view of the wall cabinet showing the mounting means, ironing board and iron in side elevation therein and in a nested position;

Figure 3 is a fragmentary horizontal sectional view on an enlarged scale taken substantially along a plane as indicated by the line 3—3 of Figure 6 and showing the ironing board in an extended position;

Figure 4 is a perspective view of one element of the ironing board;

Figure 5 is a similar view of one element of the mounting means;

Figure 6 is a view similar to Figure 2 showing the ironing board in an extended, operative position;

Figure 7 is a fragmentary top plan view of a portion of the ironing board and mounting means removed from the cabinet;

Figure 8 is a fragmentary perspective view of

2

a portion of the ironing board mounting means on an enlarged scale and shown removed from the cabinet;

Figure 9 is a longitudinal sectional view taken substantially along a plane as indicated by the line 9—9 of Figure 7, and

Figure 10 is a cross sectional view taken substantially along a plane as indicated by the line 10—10 of Figure 9 and illustrating additional parts including the electric iron and electric circuit thereof, shown partially diagrammatic.

Referring more specifically to the drawings, the numeral 11 designates an elongated upright cabinet which is preferably adapted to be disposed in a wall surface and which is provided with an open front 12 adapted to be normally closed by a hingedly mounted door 13. The cabinet 11 is provided with side walls 14 having correspondingly disposed vertically extending grooves or channels 15 which open inwardly thereof.

The ironing board and iron mounting constituting the invention includes an arch member, designated generally 16, having corresponding bars 17 forming the side legs thereof which slidably engage in the grooves or channels 15 and a relatively heavy wire or rod 18 forming the upper cross piece of the arch 16 and which is provided with downturned terminals which are anchored in the upper ends of the bars 17.

An ironing board 19 is provided with depending sides or flanges 20 which depend from the side edges thereof and to which the bars 17 of the arch 16 are pivotally connected by pintles 21, adjacent the lower ends of said bars 17 and adjacent one end of the ironing board 19. Said end of the ironing board 19 is provided with a depending cross flange or end wall 22, as best seen in Figures 4, 9 and 10 having on the inner side thereof spaced contact elements 23 and 24 and spaced latch pins 25.

A pair of braces 26 are pivotally mounted at their lower ends in the lower portion of the cabinet 11 on a rod 27 which is journaled in a pair of ears 28 which rise from the bottom of the cabinet 11. The opposite ends of the braces 26 are pivotally connected at their opposite, upper ends to the sides or flanges 20 intermediate of the ends thereof, as seen at 29 to combine with the arch 16 for pivotally and slidably supporting the ironing board 19 relatively to the cabinet 11.

A bar 30, also constituting a part of the mounting means, is provided on one side thereof and adjacent its ends with conventional sliding latch bolts 31 which, when in projected position, are adapted to engage recesses 32 of the cabinet

side walls 14 for demountably supporting the bar 30 therein rearwardly of the channels 15 and for rotatably supporting said bar relatively to the cabinet. A pair of contractile coil springs 33 are anchored by means of eye fastenings or other suitable means at corresponding ends thereof to said aforementioned side of the bar 30 and preferably slightly below the axis of the latch bolts 31 and the opposite ends of said springs 33 are anchored to the under side of the ironing board 19 intermediate of its ends. As best seen in Figure 5, a pair of contact strips 34 and 35 are fastened to said aforementioned side of the bar 30 and have free ends projecting above the upper side thereof. A pair of latch strips 36 are also anchored to the aforementioned side of the bar 30 and also project above the upper side of said bar and the upper ends thereof are provided with openings 37 for accommodating the latch pins 25.

As best seen in Figure 8, the rod 18 of the arch 16 is provided with a pair of hooks 38 for detachably engaging the handle of a conventional electric iron 39 for suspending it on the arch 16 and above the ironing board 19. As best seen in Figure 8, a plate 40 preferably of electrical insulating material extends across the upper side of the inner end of the ironing board 19 and is provided adjacent one end thereof with an electric socket 41 to receive the plug of an electric cord 42 which extends from the electric iron 39.

From the foregoing it will be readily apparent that the arch 16 will slidably and pivotally support the inner end of the ironing board 19 so that as said arch 16 moves upwardly in the channels 15 the inner end of the ironing board 19 will swing downwardly on the pivots 21 and at the same time the braces 26 will be swinging upwardly and inwardly with respect to the cabinet 11 and the ironing board 19 will be pivoting clockwise on said braces 26, as seen in Figure 6 for moving the ironing board 19 from its extended position of Figure 6 to its retracted position of Figure 2. Conversely, when the arch 16 is sliding downwardly in the channels 15 the inner end of the ironing board will be swinging outwardly and upwardly on the pivots 21 and will be rocking counter-clockwise, as seen in Figures 2 and 6, with respect to the braces 26 which will be swinging outwardly with respect to the cabinet 11. During all of this movement the iron 39 will be supported on the arch 16 by the hooks 38 as seen in Figures 1 and 2. As the ironing board 19 approaches its extended position of Figure 6 the springs 33 will be tensioned to cause the bar 30 to be yieldably urged to rock counter-clockwise as seen in Figure 9 relatively to the cabinet 11 so that as the inner wall 22 of the ironing board 19 comes to rest on the upper side of the bar 30 the resilient latch strips 36 will spring into engagement with the studs or pins 25 for locking the ironing board 19 in its extended position by engagement of the pins 25 in the openings 37 and for also retaining the conductor strips 34 and 35 in contact with the conductor elements 23 and 24, respectively, as illustrated in Figure 10. The bar 30 is preferably provided with a handle 43 which is connected to the under side thereof and which can be manually engaged for rocking said bar clockwise as seen in Figure 9 and against the action of the springs 33 for disengaging the latch strips 36 from the pins 25 so that the ironing board 19 can be moved from an extended to a retracted or nested position.

As seen in Figure 8, the strip or panel 40 is also provided with a socket 44 containing a pilot light 45 and a conventional electric switch 46.

An electrical conductor leading from a suitable source of electric current, not shown, has one wire 47 thereof connected with the contact 34 and its other wire 48 connected to the contact 35. An electric cord includes a conductor 49 which is connected to the contact element 23 and a conductor 50 which is connected to the contact 24. The conductor 49 is also connected in circuit with the pilot light 45 and switch 46 and has its opposite end connected to one contact of the socket 41 with the opposite end of the conductor 50 connected to the other contact or post of said socket 41. Accordingly, it will be readily apparent that when the switch 46 is in a closed position and the contacts 23 and 34 and 24 and 35 are in engagement, that an electric circuit will be completed through the socket 41 and electric cord 42 to the heating element of the iron 39 and the pilot light 45 also will be energized for indicating that the electric element of the iron 39 is energized. Thus, the iron 39 may be used in a conventional manner with the ironing board 19 by removing it from the hooks 38. To de-energize the iron 39, it is only necessary to operate the switch 46 and the pilot light 45 will be de-energized for indicating that the switch is in an open position. Similarly, even if the switch is in a closed position when the ironing board 19 is movable from an extended position toward a nested position the contact strips 23 and 24 will be disengaged from the contact strips 34 and 35 for de-energizing the circuit to the iron 39.

Various modifications and changes are contemplated and may obviously be resorted to, without departing from the spirit or scope of the invention as hereinafter defined by the appended claims.

I claim as my invention:

1. A mounting for ironing boards comprising, in combination with an ironing board and an upright cabinet for containing the ironing board, said cabinet including upright side walls having opposed inwardly opening grooves, means pivotally connected to the side edges of the ironing board adjacent one end of the ironing board and slidably engaging said grooves, a pair of braces pivotally supported at their lower ends in the bottom of the cabinet below said means and pivotally connected at their upper ends to the ironing board intermediate of the ends of the latter for causing the other, free end of the ironing board to swing outwardly and upwardly relatively to the cabinet as said means slides downwardly and for causing the free end of the ironing board to swing downwardly and inwardly as said means is slid upwardly, said means comprising an arch-shaped member, and means for suspending an iron detachably on said arch-shaped member above and adjacent the first mentioned end of the ironing board whereby the weight of the iron will urge the arch-shaped member downwardly for urging the free end of the ironing board to swing outwardly and upwardly to a horizontal position.

2. A mounting for ironing boards comprising, in combination with an ironing board and an upright cabinet for containing the ironing board, said cabinet including upright side walls having opposed inwardly opening grooves, means pivotally connected to the side edges of the ironing board adjacent one end of the ironing board and

slidably engaging said grooves, a pair of braces pivotally supported at their lower ends in the bottom of the cabinet below said means and pivotally connected at their upper ends to the ironing board intermediate of the ends of the latter for causing the other, free end of the ironing board to swing outwardly and upwardly relatively to the cabinet as said means slides downwardly and for causing the free end of the ironing board to swing downwardly and inwardly as said means is slid upwardly, a bar secured in said cabinet for supporting the first mentioned end of the ironing board when the ironing board is disposed in an extended position, latch means carried by said bar, and latch means carried by the ironing board for engaging the latch means of the bar as the ironing board reaches a substantially horizontal, extended position for latching the ironing board in an extended position.

3. A mounting for ironing boards comprising, in combination with an ironing board and an upright cabinet for containing the ironing board, said cabinet including upright side walls having opposed inwardly opening grooves, means pivotally connected to the side edges of the ironing board adjacent one end of the ironing board and slidably engaging said grooves, a pair of braces pivotally supported at their lower ends in the bottom of the cabinet below said means and pivotally connected at their upper ends to the ironing board intermediate of the ends of the latter for causing the other, free end of the ironing board to swing outwardly and upwardly relatively to the cabinet as said means slides downwardly and for causing the free end of the ironing board to swing downwardly and inwardly as said means is slid upwardly, a bar turnably mounted in said cabinet, latch means carried by said bar, latch means carried by the ironing board for engaging the latch means of the bar as the ironing board reaches a substantially horizontal, extended position for latching the ironing board in an extended position, and spring means connected to the bar and ironing board for turning the bar in a direction to yieldably and detachably retain said latch means in engaged position when the ironing board is in an extended position.

4. A mounting for ironing boards comprising, in combination with an ironing board and an upright cabinet for containing the ironing board, said cabinet including upright side walls having opposed inwardly opening grooves, means pivotally connected to the side edges of the ironing board adjacent one end of the ironing board and slidably engaging said grooves, a pair of braces pivotally supported at their lower ends in the bottom of the cabinet below said means and pivotally connected at their upper ends to the ironing board intermediate of the ends of the latter for causing the other, free end of the ironing board to swing outwardly and upwardly relatively to the cabinet as said means slides downwardly and for causing the free end of the ironing board to swing downwardly and inwardly as said means is slid upwardly, said first mentioned means including an arch member disposed above the ironing board, a bar turnably mounted in said cabinet, latch means carried by said bar, latch means carried by the ironing board for engaging the latch means of the bar as the ironing board reaches a substantially horizontal, extended position for latching the ironing board in an extended position, spring means connected to the bar and ironing board for turning the bar in a direction to yieldably and detachably retain said latch means in engaged position when the ironing board is in an extended position, hangers pivotally mounted on said arch member and adapted to detachably support an electric iron for use with the ironing board, the weight of the iron urging the ironing board toward an extended latched position, electrical contacts connected to a source of electric current and secured to said bar, and electrical contacts electrically connected to the electric iron and secured to the ironing board in a postion to engage the electrical contacts secured to the bar when the ironing board is latched in an extended position.

5. A mounting for ironing boards comprising, in combination with an ironing board and an upright cabinet for containing the ironing board, said cabinet including upright side walls having opposed inwardly opening grooves, means pivotally connected to the side edges of the ironing board adjacent one end of the ironing board and slidably engaging said grooves, a pair of braces pivotally supported at their lower ends in the bottom of the cabinet below said means and pivotally connected at their upper ends to the ironing board intermediate of the ends of the latter for causing the other, free end of the ironing board to swing outwardly and upwardly relatively to the cabinet as said means slides downwardly and for causing the free end of the ironing board to swing downwardly and inwardly as said means is slid upwardly, said first mentioned means including an arch member disposed above the ironing board, a bar turnably mounted in said cabinet, latch means carried by said bar, latch means carried by the ironing board for engaging the latch means of the bar as the ironing board reaches a substantially horizontal, extended position for latching the ironing board in an extended position, spring means connected to the bar and ironing board for turning the bar in a direction to yieldably and detachably retain said latch means in engaged position when the ironing board is in an extended position, hangers pivotally mounted on said arch member and adapted to detachably support an electric iron for use with the ironing board, the weight of the iron urging the ironing board toward an extended latched position, electrical contacts connected to a source of electric current and secured to said bar, and electrical contacts electrically connected to the electric iron and secured to the ironing board in a position to engage the electrical contacts secured to the bar when the ironing board is latched in an extended position, said ironing board being provided with a panel having an electric socket and switch interposed in said electric circuit between the electric iron and the electric contacts connected to the ironing board, and said switch being operable for interrupting or making the electric circuit to the iron when the ironing board is in an extended, latched position.

DICK WOELKE.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
561,245	Wagner	June 2, 1896
1,558,409	Stienecker	Oct. 20, 1925
1,625,354	Evans	Apr. 19, 1927
1,659,280	Rieter	Feb. 14, 1928
1,753,423	Kroschel	Apr. 8, 1930
2,287,646	Steele	June 23, 1942