

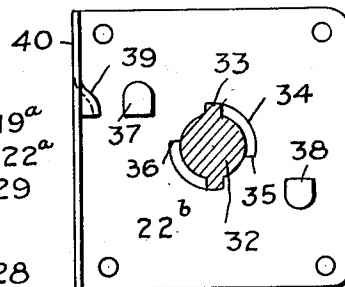
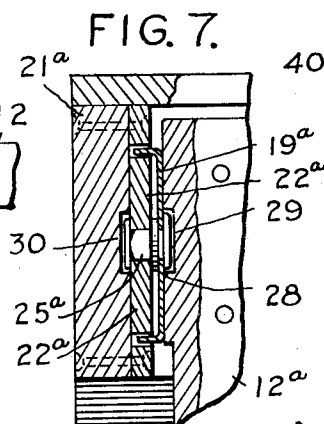
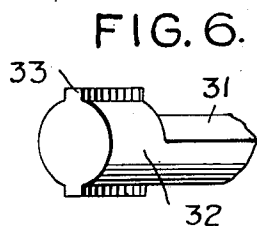
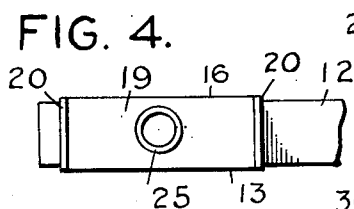
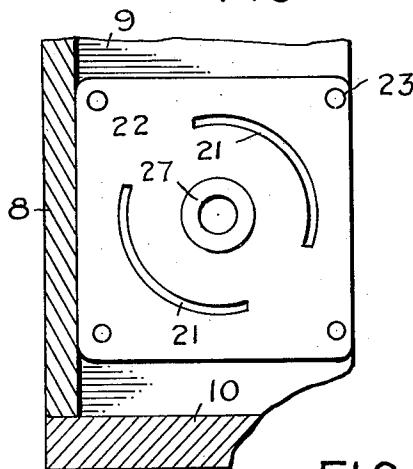
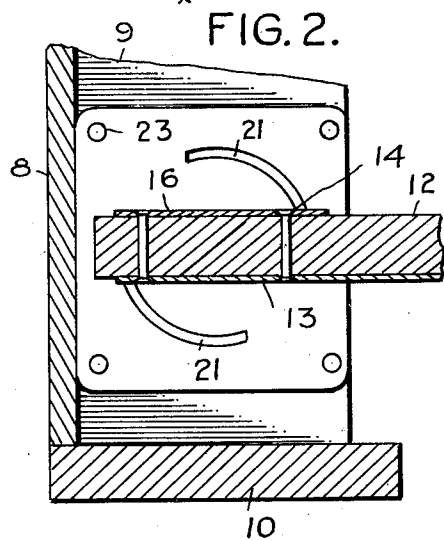
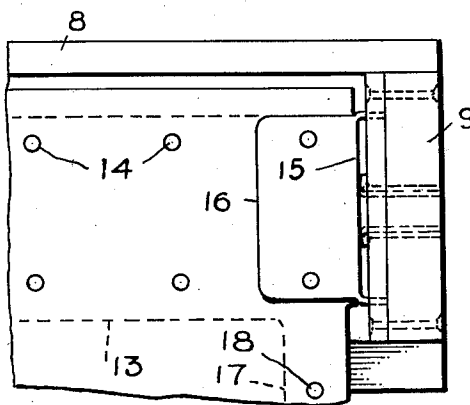
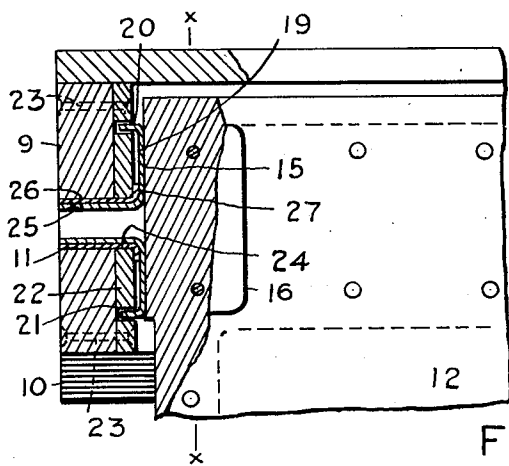
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**2,498,558**

## PIVOTAL MOUNTING AND BRACE FOR IRONING BOARDS

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## UNITED STATES PATENT OFFICE

2,498,558

PIVOTAL MOUNTING AND BRACE  
FOR IRONING BOARDS

Alpha Perry Lantz, Washington, D. C.

Application April 21, 1945, Serial No. 589,545

1 Claim. (Cl. 38—129)

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This invention relates to ironing boards of the type adapted to be supported from a wall or in a compartment and has for its primary object the provision of a simple and efficient means, in combination, for pivoting and bracing the board to permit the swinging of the same to ironing position and bracing the same in adjacency to the pivoted end of the board while in said position.

In a companion application filed April 18, 1945, Serial No. 589,030, I have disclosed and claimed the broad or underlying principal of the instant invention, and illustrated several practical embodiments thereof, the fundamental and distinguishing characteristic of the present invention residing in the simplicity and inexpensiveness of manufacture while maintaining comparable efficiency of operation.

With the foregoing object in view a preferred embodiment of the invention comprises the ironing board provided with a sheet metal or equivalent transverse embracing or attaching member, carrying a sheet metal member or plate with an offset flange or flanges cooperatively related to a slotted plate, adapted to be secured to a supporting member or the like mounted on a wall or cabinet, and pivoting means enabling the swinging of the board to operative or inoperative position and corresponding shifting of the restricting and bracing lug or flange, or lugs or flanges to limit the said swinging movement and stop or support the board in its expected operating pressures or forces incident to ironing operations.

The invention of said embodiment also embraces the formation of the bracing or attaching member for the flanged stop and bracing device, with integral or attached extensions running longitudinally of the board and strengthening the board to prevent flexing or give of the same longitudinally and from its pivoted end to obviate the necessity of depending or floor supports for the free end of the board when occupying ironing position.

Another embodiment of the invention comprises the formation of the plate with which the pivot end of the ironing board engages, of sheet or plate metal from which the limiting stop or stops for the swinging movement of the board may be pressed outwardly or bent, supplemented where necessary or desired, by an interior formation of the edge of the sheet or plate through which a complementally formed pivot extension of the board passes for additionally functioning as other stops or supports limiting the swinging movement or movements of the ironing board.

A still further modification resides in the pro-

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viding of the embracing or supporting member that attaches the pivoted end of the ironing board to the plate, which it engages through the medium of a pivoting rivet, one end of which is headed over the supporting plate and the other end of which is riveted over the part of the embracing or supporting member that is attached to the board and which has the lug or flange cooperating with the groove of said first-mentioned plate, preferably a flange or washer being interposed between the latter and the flange-carrying plate.

The details thus far related as other features of construction and arrangement will appear more fully from the specific description hereinafter contained when read in connection with the accompanying drawings forming part hereof and wherein the said preferred and other embodiments of the invention are illustrated.

## In the drawings

Figure 1 is a part top elevation and part section of a wall cabinet in which the improved ironing board (fragmentarily shown) is mounted, the board being in its outwardly swung or ironing position.

Figure 2 is a sectional view looking towards one of the end walls of the cabinet taken on the line x—x of Figure 1.

Figure 3 is an inside view looking towards said end wall of the cabinet and illustrating the stop plate in connection with which the ironing board is to be used and from which the board has been removed.

Figure 4 is an edge view of the inner end portion of the ironing board illustrating the embracing or supporting member engageable over the edge of the board and carrying the pivot and stop flanges or lugs therefor, adapted to engage the supporting plate on the inside of the cabinet as depicted in Figures 1 and 2.

Figure 5 is a detached view illustrating a modified construction involving the sheet metal supporting plate to be attached to the wall of the cabinet and which is formed with the struck-out stops and an interior formation cooperative with a complemental formation of supporting shaft or pivot, the latter being shown in Figure 6.

Figure 7 is a sectional view illustrating a different manner of mounting and pivoting the flanged plate to its companion slotted stop plate.

Referring more specifically to the drawings wherein like reference characters refer to corresponding parts in the several views 8 represents the back wall of a wall cabinet or the like, 9 the end walls thereof and 10 the bottom mem-

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ber, it being understood that any suitable front door may be provided, if desired, and the same comment applied to the top. The end walls 9 have aligned openings 11 therein for a purpose that will be obvious. 12 is the ironing board of any suitable and preferred construction, reinforced as found necessary and convenient by means of a transversely disposed sheet metal yoke or band 13 of substantial width, underlying and riveted as at 14 to the inner or pivoted end of the board 12, passing around the opposite edges of the board as at 15, so that the ends 16 of the band overlie and are fastened to the upper face of the board. On the bottom face of the board 12 forward extensions 17, of the yoke or band 13, run outwardly toward the free end of the board and are riveted thereto as at 18, to reinforce the board against vibration or bend, it being understood that the extensions 17 are of sufficient length and strength to be rigid and firm to the end stated.

The intermediate portions of the yoke 16, denominated 19, that is the bent intermediate portions of the yokes that lie and are secured directly against the side edges of the board 12, constitute the metal plates from which the stop flanges or lugs 20 are bent outwardly, as clearly seen in full and also dotted lines, at the opposite ends of the board (Figure 1), these flanges 20 being substantially straight and bent outwardly at right angles from the plate 19 and adapted to engage and ride in arcuate slots 21, in stop plates 22, one also at each end of the cabinet 8, riveted to the end walls 9 of the latter as at 23. These arcuate slots 21 are arranged in diagonal position relative to each other, but of course, are concentric to the axis of rotation of the board 12, the opposite ends of the slots engaging with the end edges of the stop flanges 20, affording limitations confining the pivotal movements of the board 12 in opposite directions and offering firm and bracing supports for the board when in ironing position both forwardly and rearwardly of the pivotal axis of the board, the upper end wall of the slot 21 resisting downward movement of the board forwardly of its pivotal axis and the corresponding end of the lower slot resisting upward movement of the end of the board inwardly beyond its pivotal axis so that at two points—fore and aft—the board is braced and firmly retained in operative position.

In Figure 3 the plate 22 at one side wall of the cabinet (and, as stated, the plate is duplicated in each instance at the opposite side wall of the cabinet) is shown independently of the ironing board 12 and its pivoting means, the plate having a central opening 24, and an integral cylindrical hollow stem constituting the shaft 25 (Figure 1) is pressed or extended, the same being adapted to fit and rotate in a bearing sleeve 26, passed through the end wall 9 of the cabinet, and through the slotted plate 22 having its inner end 27 flanged over and upon the slotted plate 22 to constitute a rounded inner thrust bearing for the adjacent face of the flange-carrying plate or member 15. Instead, however, of forming the hollow rotatable member 25 integral with the plate 19 having the stop flange or flanges 20, as illustrated in Figure 1, I may provide the construction illustrated in Figure 7 where it will be seen that although the general construction and arrangement is quite similar, the pivoting of the ironing board here designated 12a is through the medium of a rivet 25a passing through the slotted

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plate 22a and through the flanged stop plate 19a with an intervening washer or collar 28 to provide easy rotation of the flanged plate 19a with reference to the slotted stop plate 22a, it being seen that the opposite ends of the pivot member or rivet 25a are headed over the adjacent surfaces of the plates 19a and 22a as shown. The ironing board and end wall 21a of the cabinet are recessed as at 29 and 30 to accommodate the heads of the pivoting rivet. The latter is preferably free to turn in a rotative direction in the slotted plate 22a and also, if desired, in the plate 19a, but may have binding engagement between the pivot member and the plate 19a as found expedient.

It may be desirable, in instances, rather than provide either style of pivotal mounting as thus far explained and illustrated in connection with Figures 1 and 7, to provide a shaft continuous from end-to-end and extending transversely across the ironing board, as illustrated fragmentarily in Figure 6 (it being understood that the opposite end of the shaft is of the same formation as shown in Figures 5 and 6) said shaft having an intermediate cut-out connecting portion 31 in which the ironing board may be seated and bolted thereto, the ends of the shaft being rounded as at 32 to fit in bearing sleeves, as 26 (Figure 1) and having ribs 33 extending longitudinally of said ends to ride back-and-forth in diagonally related arcuate ways or recesses 34 formed at the inner edge of the plate 22b, in this instance in lieu of a plate such as 22 hereinbefore described, the ends 35 and 36 of these arcuate ways constituting abutting surfaces to support and brace the board when in horizontal or ironing position as will be apparent. In this instance ancillary corresponding diagonally disposed stops 37 and 38 are struck from the metal of the plate 22b, the stop 38 adapted to support the ironing board and resist the pressures or strains thereon in ironing position while the stop 37 is contacted by the inner end of the board beyond the pivoted shaft 32 to similarly brace the board in an upward direction at said end; and if found that bracing is expedient an additional abutment as 39 may be struck inwardly from a back flange 40 fitting the corner of the cabinet in position to have the extreme end of the board about the same and also help prevent upward movement of said end corresponding to downward movement of the forward or projected free end of the board.

It will be noticed that the stop flanges 20, co-operating with the slots 21, in the plate 22, are straight whereas the slots are curved but the length of the flanges is such that they may ride without difficulty in the slots, any frictional engagement between the ends of the flanges 20 with the walls of the slots 21 being of advantage in resisting somewhat a too easy swing of the board 12 on its pivots while not interfering with the ready projecting of the board from the casing or closing of the same into the cabinet.

From the foregoing disclosures it will be apparent that slight changes or alterations in the various forms and arrangements of parts illustrated may be resorted to as may be embraced within the scope of the hereto appended claim.

I claim:

In combination with a cabinet having side walls, of means for mounting an ironing board in said cabinet to swing therefrom into ironing position, comprising a pair of pintles at the side edges of said board, bearing members mounted in the side walls for rotatably receiving the pin-

ties, plates secured to said side walls and surrounding said bearing members, said plates being provided with arcuate slots, and a sheet metal strap for reinforcing said ironing board, including a central part secured to the underside of said board, end portions secured to the top of said board and elongated plate sections intermediate said central part and end portions engaging the side edges of the board, said elongated plate sections carrying the pintles and provided with end extensions turned parallel to the pivotal axis to enter the arcuate slots of the plates and limit the swinging movements of the board.

ALPHA PERRY LANTZ. 15

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