May 15, 1928. 1,669,566

W. G. LARSEN

IRONING BOARD

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Fig-1

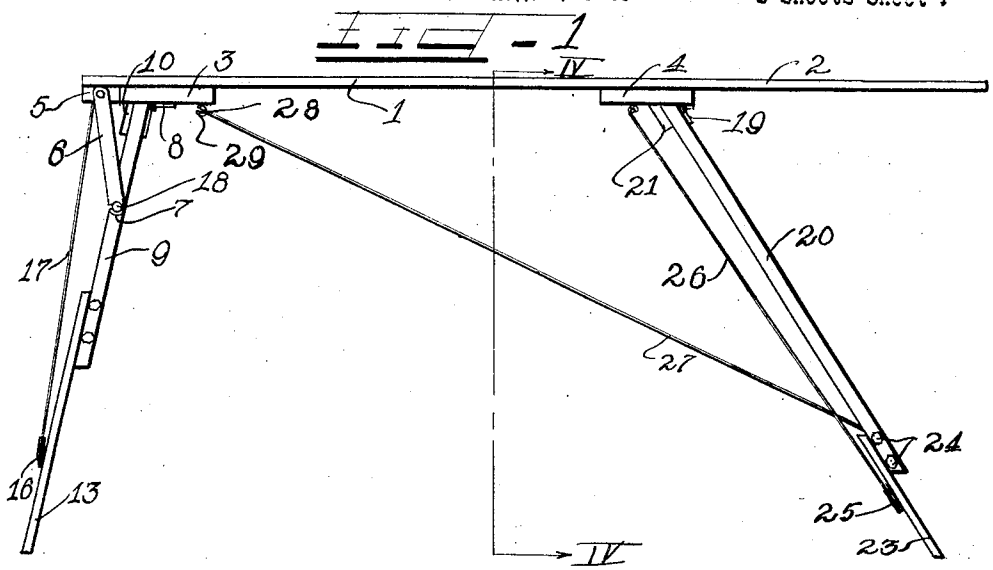
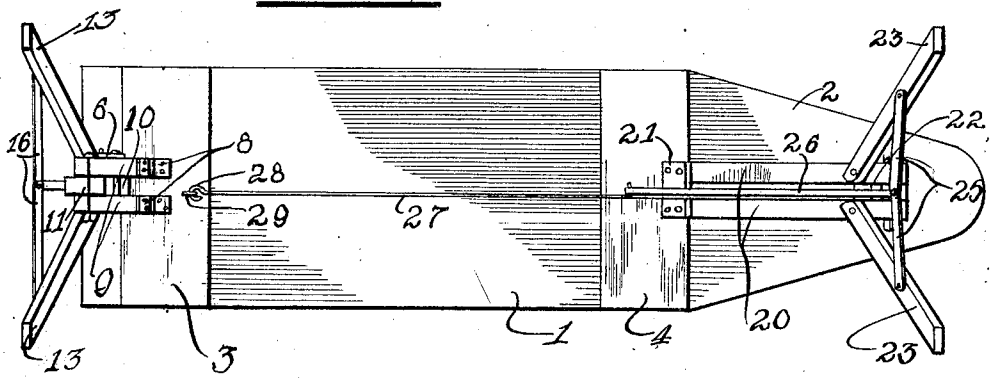


Fig-2



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Fig. 3

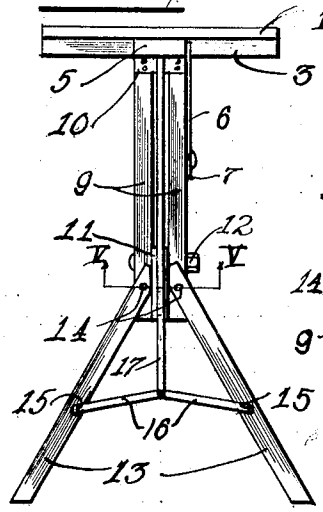


Fig. 5

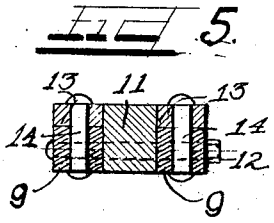


Fig. 4

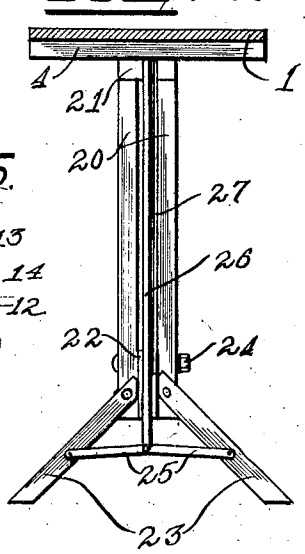
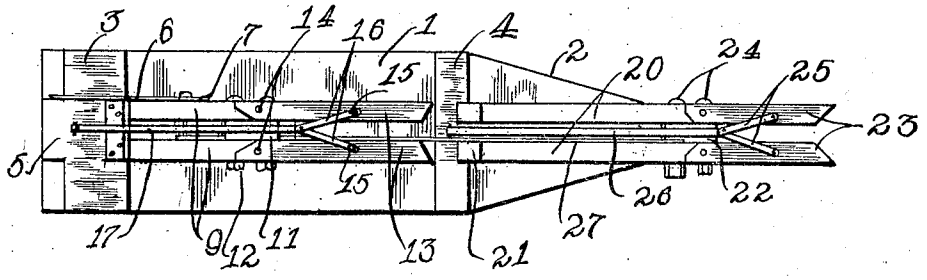


Fig. 6



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UNITED STATES PATENT OFFICE.

WILLIAM G. LARSEN, OF STEGER, ILLINOIS.

IRONING BOARD.

Application filed August 2, 1926. Serial No. 126,419.

This invention relates to an improved ironing board of a type having supporting legs pivotally mounted thereon terminating in pivoted feet which are adapted to be operated by toggle mechanisms so that when the ironing board is set up for use the feet are spread apart a distance greater than the width of the board to lend stability to the ironing board.

It is an object of this invention to provide an ironing board having pivoted legs operable by means of toggle mechanisms so that when the ironing board is closed the legs are retracted to lie within the width of the ironing board.

It is also an object of this invention to provide an ironing board having toggle mechanisms connected therewith, to automatically spread the legs apart, a distance wider than the board, when the ironing board is set up for use, and further adapted to close the leg members to lie within the width of the board when the ironing board is collapsed.

It is an important object of this invention to provide an ironing board of improved simplified construction having toggle mechanisms for moving the legs into open and closed positions thereby permitting the legs to be disposed within the width of the ironing board when said board is collapsed, and furthermore permitting the legs to be spread apart, a distance greater than the width of the ironing board, when the ironing board is set up for use.

Other and further important objects of this invention will be apparent from the disclosures in the specification and accompanying drawings.

The invention (in a preferred form) is illustrated in the accompanying drawings and hereinafter more fully described.

On the drawings:

Figure 1 is a side elevation of an improved ironing board embodying the principles of this invention and set up for use.

Figure 2 is a bottom plan view of the ironing board in open position.

Figure 3 is an end elevation of the ironing board when in open position.

Figure 4 is a transverse section of the ironing board taken on line IV—IV of Figure 1.

Figure 5 is an enlarged detail section taken on line V—V of Figure 3.

Figure 6 is a bottom plan view of the ironing board when collapsed.

As shown on the drawings:

The reference numeral 1 indicates a flat wooden ironing board, or top, tapered at one end, as indicated by the reference numeral 2. Secured transversely of the under surface of the board 1 are brace boards 3 and 4. Formed centrally on one longitudinal margin of the brace 3 is an extension 5, on which one end of a brace bar 6 is pivotally supported. The other end of the brace bar 6 is provided with a latching notch or hook portion 7.

Secured to the under face of the brace board 3 are a pair of hinges 8 for pivotally supporting a pair of spaced leg bars 9. The leg bars 9 are connected at their upper end by means of a transverse connecting bar or block 10. Engaged between the lower or outer ends of the leg bars 9 is a filler block 11, held in place by a retaining bolt 12. The filler block 11 projects from between the two leg bars 9 and affords a stop block for the upper chamfered ends of a pair of arms or feet 13, which are pivoted on pivot bolts 14, engaged through the leg bars 9. Pivotally connected at 15 to the feet 13, are a pair of toggle bars 16, the inner ends of which are pivotally connected to the lower end of a connecting bar 17, the upper end of which is pivotally connected to the under side of the brace bar 3 a short distance to the outside of the hinged members 8 to which the leg bars 9 are connected. Secured on one of the leg bars 9 is a latch pin 18 on which the hook end 7, of the brace bar 6 is adapted to be engaged when the rear supporting leg 9—13 is moved into a supporting position, as illustrated in Figure 1.

A front leg mechanism is connected to the under face of the brace board 4 by means of hinges 19. Secured to the hinges 19 are the upper ends of a pair of spaced front leg bars 20, the upper ends of which are connected by a cross piece 21. Secured between the lower ends of the front leg bars 20 is a filler block 22 which projects from between said front leg bars to afford a stop block for the chamfered ends of a pair of

arms or feet 23, having the upper ends thereof pivoted to the lower ends of said front leg bars on opposite sides of the stop block 22. Retaining bolts 24 are used to hold the filler block 22 clamped between the lower ends of the front leg bars 20. Pivotally connected to the feet 23 are a pair of toggle bars 25, the inner ends of which are pivotally connected to the lower end of a connecting rod 26. The upper end of the connecting rod 26 is pivotally connected to the under face of the brace board 4 to the inside of the upper end of the front leg member. Connected to the filler block 22 of the front leg member is one end of a tension rod 27. The other end of the tension rod 27 is provided with a loop 28 adapted to be removably engaged on a hook member 29 secured to the under face of the rear brace board 3.

The operation is as follows:

When the improved ironing board of this invention is not in use the front and rear leg members are swung in the same direction into a position of alignment against the under surface of the board 2, as clearly shown in Figure 6. In this position of the leg members the connecting rods 17 and 26 act on the respective pairs of toggle members 16 and 25 causing said toggle members to pull the respective feet 13 and 23 inwardly into substantially parallel relation to lie within the width of the board.

To set up the ironing board into a position for use it is only necessary to swing the front leg member downwardly into the inclined position illustrated in Figure 1, thereby causing the connecting rod 26 to act on the toggle members 25 to swing the front feet 23 away from one another into the spread or extended position shown in Figure 4, to provide a two point bearing leg the span of which is wider than the width of the board 1. The loop end 28 of the tension rod 27 is pulled toward the hook 28, and is removably engaged thereon to permit the tension rod 27 to hold the front leg member in a braced position, as shown in Figure 1.

The rear leg member is swung downwardly away from the board 1 into the position shown in Figure 1 thereby permitting the connecting rod 17 to operate the toggle members 16 to cause the same to swing the rear feet 13 away from one another to form a two point support for the rear leg member. To hold the rear leg member in a braced position the brace bar 6 is swung downwardly into a position to permit the hooked end 7 thereof to engage on the latch pin 18 thereby holding the rear leg member in a braced position.

The connecting rods 17 and 26 acting on the respective toggle members 16 and 25 move the same into a position a little above dead center, as shown in Figures 3 and 4, to permit operation of the toggle members when the leg members are swung toward, or away from the board 1.

It will thus be seen that the improved toggle mechanisms cooperate with the pivoted feet of the ironing board leg members, affording an arrangement permitting a substantial four point contact with the floor, with the span of the pairs of feet being greater than the width of the board 1. This arrangement affords a very rigid ironing construction obviating the tendency to upset, which is encountered with ironing boards having three point contacts with the floor. The toggle mechanisms also permit the supporting feet to be automatically drawn inwardly when the leg members are swung toward the under surface of the board 1.

It will thus be seen that when the ironing board is in a collapsed position that the pivoted feet are drawn inwardly into substantial alignment with the respective leg bars so that no portions of the leg members extend beyond the side margins of the top board 1 when the ironing board is collapsed.

I am aware that many changes may be made and numerous details of construction may be varied through a wide range without departing from the principles of this invention, and I therefore do not purpose limiting the patent granted hereon otherwise than necessitated by the prior art.

I claim as my invention:

1. An ironing board comprising a top, legs pivotally secured thereto, feet pivotally connected to the lower portions of said legs and adapted to move transversely of the path of movement of said legs, and toggle mechanisms connecting said top to said feet and operable by the movement of said legs to actuate said feet.

2. An ironing board comprising a top, legs pivotally supported thereon, brace members for said legs, feet pivotally mounted on said legs for movement transversely of the path of movement of said legs, and toggle mechanisms connected with said feet and with said top.

3. An ironing board comprising a top, leg members hingedly connected thereto, feet pivotally mounted on each of said leg members for movement transversely of the path of movement of said legs, stops on said leg members for limiting the outward movement of said feet, brace members for holding said legs in supporting position, and toggle mechanisms connecting the feet on each leg member with said top.

4. An ironing board comprising a top, leg members pivoted thereto, brace members connected with said leg members and with said top to hold the leg members in supporting position, feet pivotally connected near one end to each of said leg members

and adapted to swing towards and from each other in a direction transversely of the path of movement of said leg members, and toggle mechanisms connecting the feet on each leg member with said top and adapted to cause said feet to swing from a spread position greater than the width of said board into a retracted position less than the width of said board when the leg members are released and swung toward said board.

In testimony whereof I have hereunto subscribed my name.

WILLIAM G. LARSEN.