J. A. REED.

COLLAPSIBLE SUPPORTING AND LEVELING FRAME FOR IRONING BOARDS.

APPLICATION FILED MAR. 25, 1920.

1,359,527.

Patented Nov. 23, 1920.

2 SHEETS—SHEET 1.

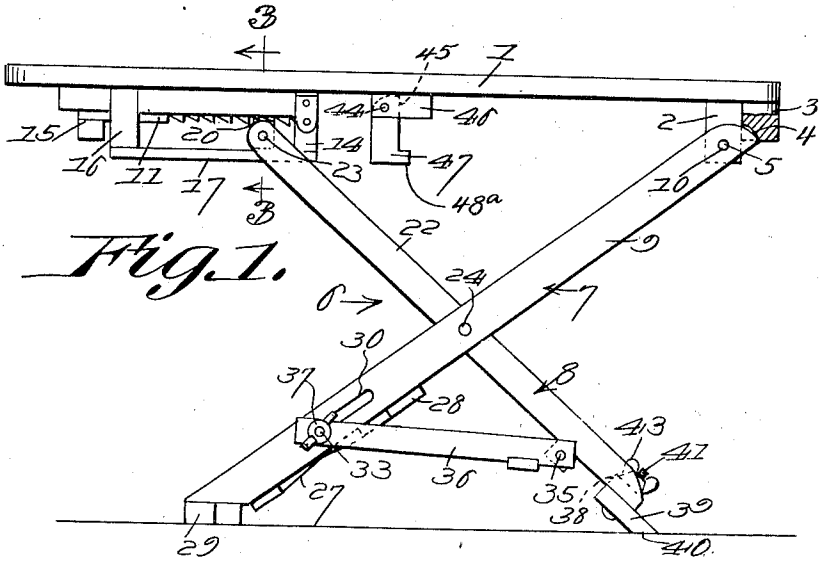


Fig. 1.

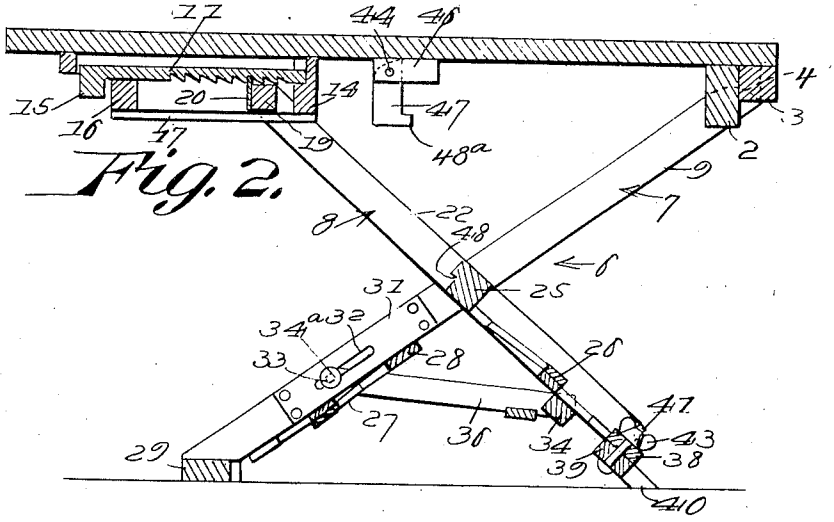


Fig. 2.

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2 SHEETS—SHEET 2.

Fig. 3.

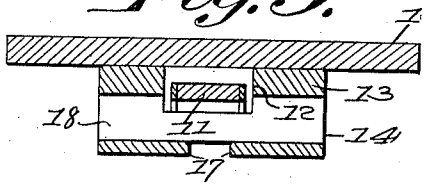


Fig. 4.

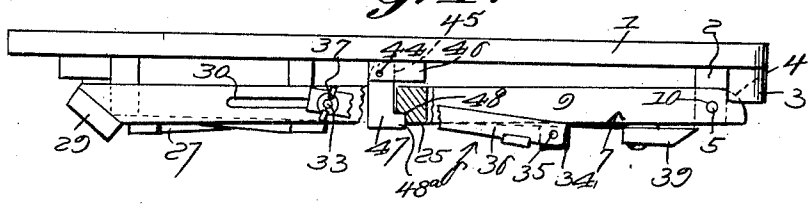


Fig. 5.

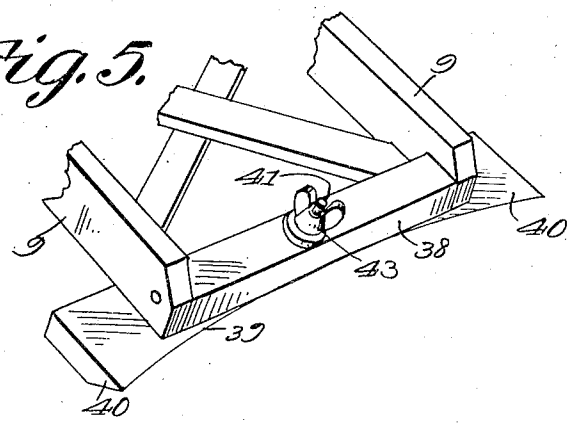
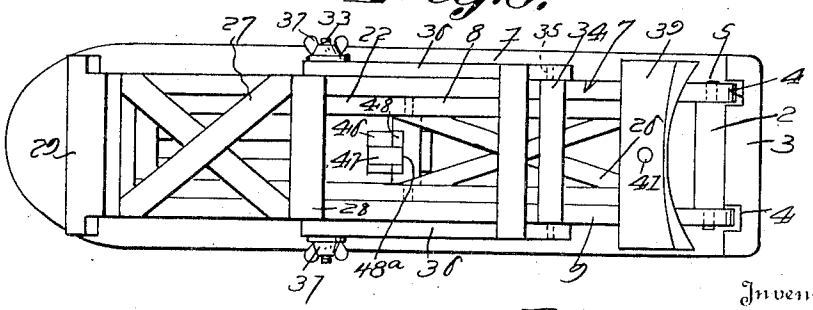


Fig. 6.



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UNITED STATES PATENT OFFICE.

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COLLAPSIBLE SUPPORTING AND LEVELING FRAME FOR IRONING-BOARDS.

1,359,527. Specification of Letters Patent. Patented Nov. 23, 1920.

Application filed March 25, 1920. Serial No. 368,557.

To all whom it may concern:

Be it known that I, JOHN A. REED, a citizen of the United States, residing at Miles City, in the county of Custer and State of Montana, have invented certain new and useful Improvements in Collapsible Supporting and Leveling Frames for Ironing-Boards, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to the art of ironing boards and particularly to an improved collapsible supporting and leveling frame for such devices, and an object of the invention is to provide a novel, simple and efficient device of this kind and in which practical features are involved.

Another object embodies an ironing board supporting and leveling frame which may be very cheaply made and sold at a reasonable profit.

Still another object resides in the provision of collapsible legs in the form of rectangular frame sections, one section being pivoted to the ironing board, the other section having a sliding adjustable connection with the under face of the ironing board, whereby the sections (which are pivotally united at the point where they intersect) may be adjusted for supporting the ironing board at different heights.

A further object involves bracing means between the two sections of the supporting frame with devices for clamping said bracing means in order to insure holding the sections of the frame rigidly and in adjusted positions.

A still further object consists in the provision of means for holding the sectional supporting frame in a collapsed position against the under face of the ironing board when the board is not in use.

Furthermore the invention aims to provide a leveling member carried by one of the sections of the frame adapted to be adjusted to accommodate uneven surfaces on which the frame rests so as to hold the ironing board level.

While the design and construction at present illustrated and set forth is deemed preferable, it is obvious that as a result of a reduction of the invention to a more practical form for commercial purposes, the invention may be susceptible to changes, and the right to these changes is claimed, provided they are comprehended within the scope of what is claimed.

The invention comprises further features and combination of parts, as will be hereinafter set forth, shown in the drawings and claimed.

In the drawings:

Figure 1 is a view in side elevation of the improved ironing board and supporting frame therefor constructed in accordance with the invention;

Fig. 2 is a vertical sectional view through the same,

Fig. 3 is a transverse sectional view on line 3—3 of Fig. 1,

Fig. 4 is a view in side elevation showing the supporting frame for the ironing board collapsed, showing the parts thereof in section;

Fig. 5 is a detail view of the leveling device for one of the sections of the frame; and

Fig. 6 is a bottom plan view of the ironing board showing the supporting frame therefor collapsed.

Referring to the drawings, 1 designates a conventional form of ironing board. Secured to one end of the ironing board to the under face thereof is a pair of cleats 2 and 3. The cleat 3 is notched as shown at 4 adjacent its opposite ends. The cleat 2 is shorter than the cleat 3 and its opposite ends are provided with reduced pintles 5. The supporting frame 6 for the ironing board comprises the two sections 7 and 8 which are rectangular in construction. The section 7 comprises the side legs 9, the upper ends of which are apertured at 10 to receive the pintles 5. The end edges of the legs 9 of the section 7 are rounded so as to permit freedom of movement of the legs with relation to the board. In order to assist in holding the legs on the pintles 5 the upper end of the legs 9 engage the notches 4 of the cleat 3. In other words the bottoms of the notch 4 act as shoulders or abutments to limit the legs 9 in their downward inclined position when the supporting frame is open for the purpose of supporting the ironing board. Secured to the under face of the ironing board adjacent the smaller end thereof is a guide for the reception of the holder member 11. This guide is in the form of a channel and the sides 12 of the channel 13 retain the holder in place, against the excessive lateral movement. Transverse guide 14

is secured to the under face of the ironing board transversely of the channel and also receives the holder. The holder has a cross piece 15 with which the thumb or finger may engage so as to lift the holder upwardly. Forwardly of the channel and secured to the under face of the ironing board is a cleat 16 and connecting this cleat and the under face of the member having the guide 14 are supporting pieces 17 thereby forming guides 18.

A cross head 19 is mounted in the guide 18 and one face of this cross head has a plate 20 secured thereto by screws. The under face of the holder has transverse teeth 21 of the ratchet type to be engaged by the edge portion of the plate 20 to hold the cross head in different positions in the guide 18. The legs 22 of the supporting section 8 are pivotally mounted on the pintles 23 of the cross head 19. The two sections of the supporting frame are pivotally united as at 24 by means of the pintles as shown in side elevation. These pintles 24 are carried by a cross piece 25 which is secured between the legs 22 of the supporting section 8 of the frame. Suitable braces 26 reinforce the section 8 of the supporting frame.

The legs 9 of the section 7 of the supporting frame have diagonal braces 27 and transverse braces 28 and 29. The transverse brace 29 constitutes a floor engaging member in order that the supporting frame may have a firm supporting lower portion and so that the frame will rest evenly on the floor or other surface. The legs 9 adjacent their lower portions have elongated slots 30, and secured to the adjacent faces of the legs 9 are sheet metal plates 31 which are also slotted as shown at 32. The slots 30 and 32 register, and engaging through these registering slots are bolts 33. The bolts 33 have their shanks provided with rectangular portions 34^a which engage the slots to prevent the bolts from turning. Secured to the legs 22 of the section 8 of the supporting frame is a transverse piece or cleat 34 to the reduced ends 35 of which the brace links 36 are pivoted. The bolts 33 pass through the ends of the brace links 36, and are provided with wing nuts 37 by the adjustment and tightening of which the brace links may be held in different adjusted positions with relation to the two sections of the supporting frame, thereby rigidly holding the sections of the frame in different adjusted positions for the purpose of holding the ironing board at different heights. The plate 20 of the cross head 19 is designed to engage any one of the teeth of the holder to adjust the two sections of the frame relatively to each other for the purpose of holding the ironing board in contact therewith.

After the sections have been so adjusted it is the aim to tighten the wing nuts on the screws 33 to prevent the frame from accidentally collapsing should the same be unavoidably struck. When permitting the supporting frame to collapse or close adjacent the under face of the ironing board, it is the aim to loosen the thumb screws on the bolts 33 and then by applying thumb and finger pressure on the cross piece 15 of the holder, the holder (which is loosely mounted in the channel) may be raised sufficiently to disengage its tooth from the cross head so as to allow the cross head to be adjusted. Arranged adjacent the cross piece 38 of the lower ends of the legs 22 of the sections 8 of the supporting frame is a leveling device 39. This leveling device comprises a transverse element which has its lower edge curved out or cut away as shown so as to provide feet 40. Bolt 41 passes through the leveling device and through the cross piece 38 and is provided with a thumb nut 43 by the adjustment and tightening of which the leveling device may be held at different positions as may be desired for the purpose of holding the supporting frame upright and the ironing board level. It is obvious that should the floor or other surface on which the supporting frame rests be uneven, the leveling device may be adjusted to accommodate the irregularities of the floor and thereby support the frame and ironing board level.

Pivoted at 44 in a notch 45 of a plate 46 which is secured to the under face of the ironing board is a latch 47, the overhanging lug 48^a of which is designed to engage the notch 48 of the cross piece 25 of the section 8 of the supporting frame, thereby holding the section of the supporting frame collapsed adjacent the under face of the ironing board when the board is not in use.

The invention having been set forth, what is claimed as new and useful is:

1. In a device as set forth, the combination with a member to be supported, of a supporting frame therefor, the under face of the member near one end being provided with a cleat having notches, said supporting frame comprising two pivotally united intersecting sections, one section being pivoted to the under part of the member and having legs to engage said notches, to assist in holding the legs on their pivots, the other section of the supporting frame having an adjustable connection with the under face of the member near the opposite end.

2. In a device as set forth, the combination with a member to be supported, of a supporting frame therefor, the under face of the member near one end being provided with a cleat having notches, said supporting frame comprising two pivotally united intersecting sections, one section being pivoted to the under part of the member and having legs to engage said notches, to assist in hold-

ing the legs on their pivots, the other section of the supporting frame having an adjustable connection with the under face of the member near the opposite end, and means for bracing the two sections relatively to each other.

3. In a device as set forth, a member to be supported, a supporting frame therefor, said frame comprising a pair of pivotally united intersecting rectangular sections, one section being pivotally connected to the under face of the member to be supported at one end thereof, the other section being loosely adjustably connected to the member to be supported, a pair of links pivotally connected to the lower portion of one of the sections of said supporting frame, said bracing links having adjustable bolt and slot connections with the lower parts of the other section of the supporting frame, for reinforcing and holding the two sections of the frame in different positions after once having been adjusted.

4. In a device as set forth, an ironing board, a cleat at one end of the board on its under surface and provided with notches, a second cleat fixed to the under surface of the board to one side of the first cleat, a supporting frame including a pair of legs pivoted to the ends of the first cleat and having their end edges engaging said notches of the first cleat assisting in holding the legs on their pivots.

In testimony whereof I hereunto affix my signature.

JOHN A. REED.