

No. 863,150.

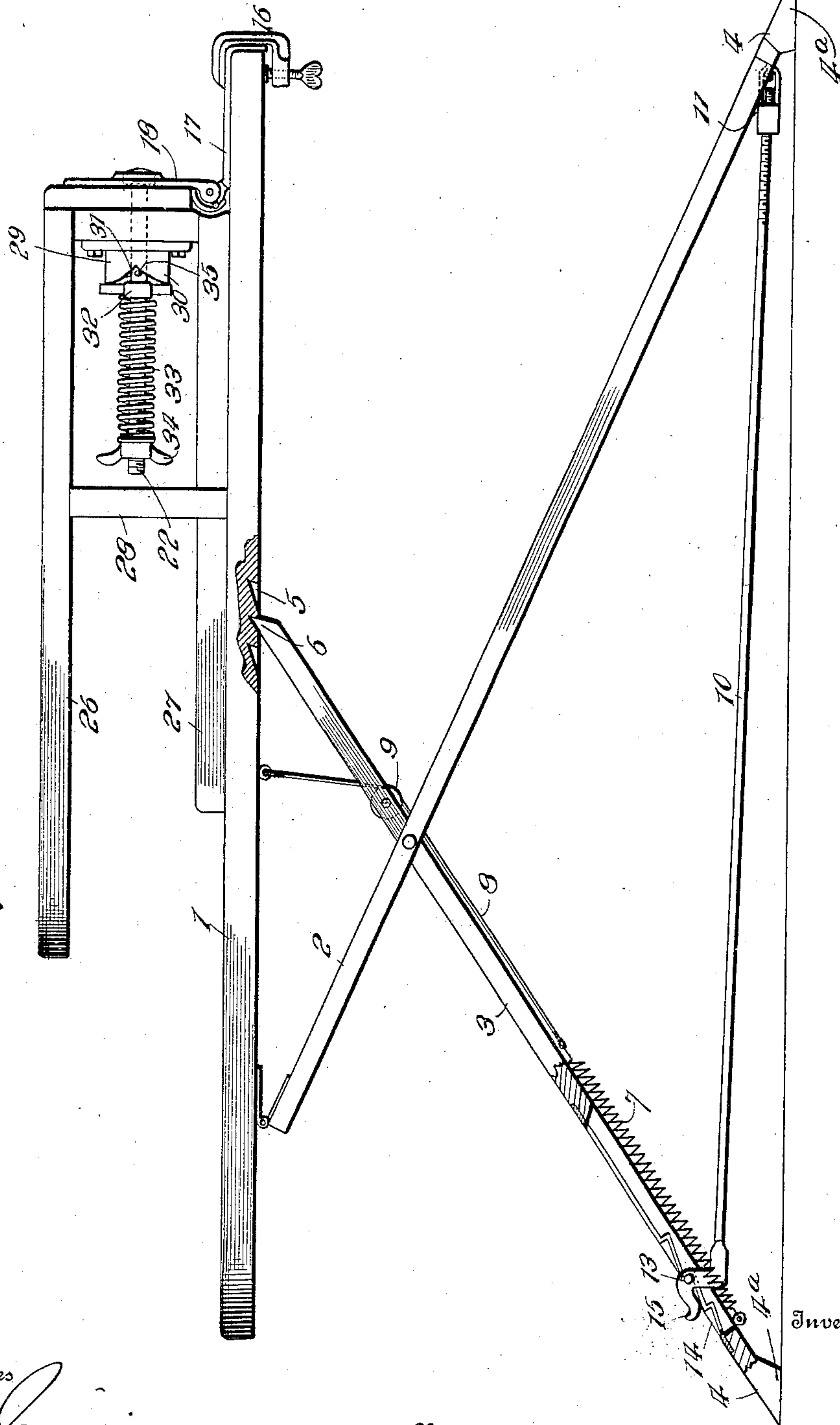
PATENTED AUG. 13, 1907.

E. H. BUSCH & O. R. PURCELL.  
IRONING BOARD.

APPLICATION FILED APR. 30, 1906.

2 SHEETS—SHEET 1.

FIG. 1.



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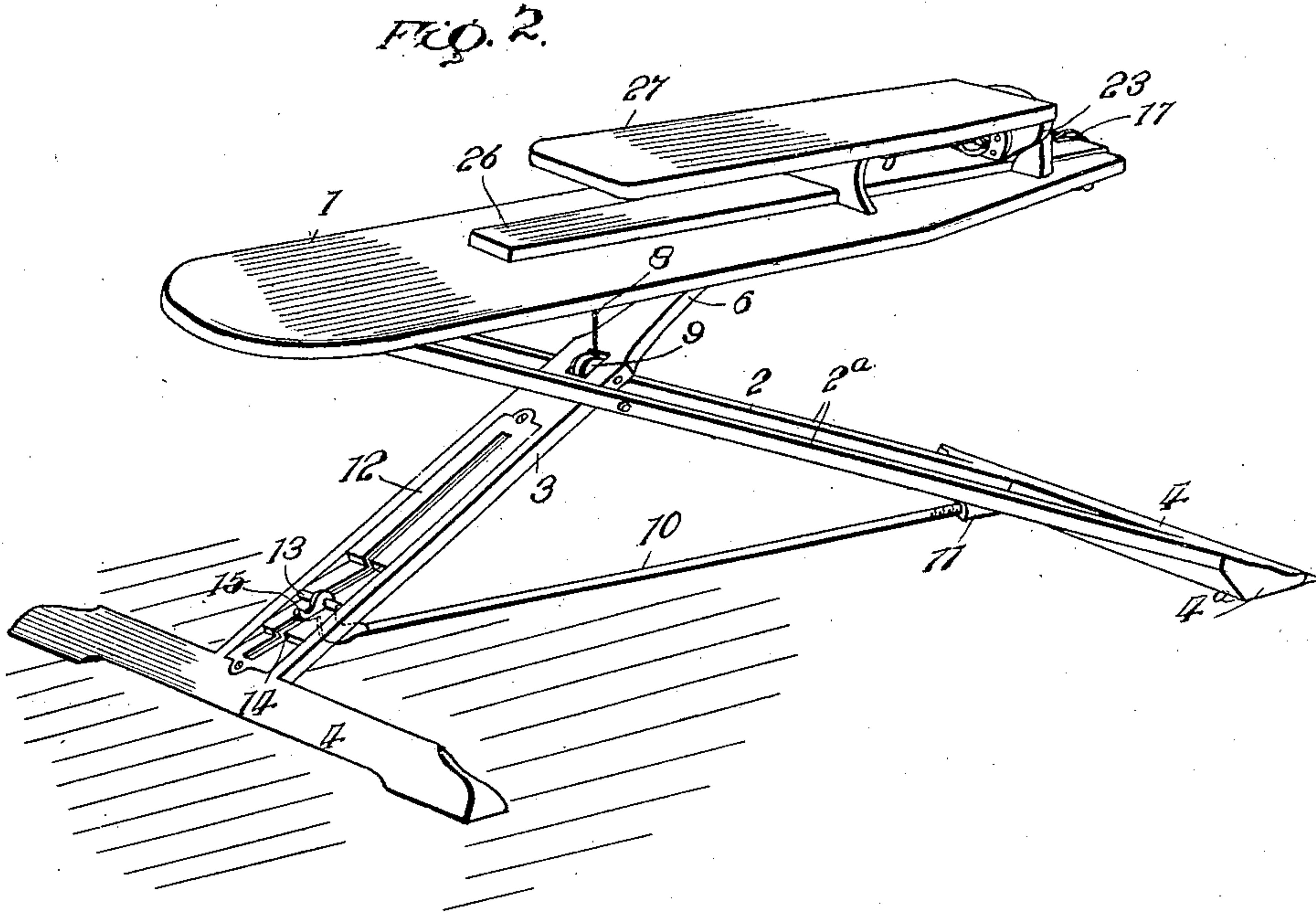
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# UNITED STATES PATENT OFFICE.

EARNEST H. BUSCH AND OLIVER R. PURCELL, OF LA GRANDE, OREGON.

## IRONING-BOARD.

No. 863,150.

Specification of Letters Patent.

Patented Aug. 13, 1907.

Application filed April 30, 1906. Serial No. 314,544.

*To all whom it may concern:*

Be it known that we, EARNEST H. BUSCH and OLIVER R. PURCELL, citizens of the United States, residing at La Grande, in the county of Union and State of Oregon, have invented certain new and useful Improvements in Ironing-Boards, of which the following is a specification.

The object of our invention is to provide an improved ironing board which is so mounted upon hinged or pivoted legs that it may be securely and permanently held at different elevations, as will be herein fully described and claimed.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a side elevation of our improved ironing board, parts being shown broken away. Fig. 2 is a perspective view.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The main board 1 is supported upon legs 2 and 3, being directly hinged to the leg 2 near one end. The leg 2 is constructed in two spaced apart members 2<sup>a</sup> which receive between them the leg 3, the latter being pivoted to the members 2<sup>a</sup> at an intermediate point as shown. Both the legs 2 and 3 are provided with supporting feet 4 which are preferably beveled on their lower sides as indicated at 4<sup>a</sup>. The under side of the board, preferably near the center or middle thereof, is provided with a rack 5 in the notches of which the tapered end 6 of the leg 3 is designed to take, whereby to support the board with the legs at different angles with respect to each other so as to hold the board at different elevations. A coil compression spring 7 is secured at one end to the leg 3 near the foot thereof, and is secured at its other end to a cable 8 constituted by a thin chain or wire or the like and the said cable extends partially around a roller 9 mounted upon a suitable shaft in the leg 3 and is attached at its upper end to the under surface of the board 1. The purpose of the tension means constituted by the spring 7 and the cable 8 is to hold the main board down upon the tapered end 6 of the leg 3 in its different adjusted positions. In addition to the adjusting means before described for the main board 1, we have provided an adjusting rod 10 one end of which is preferably screw threaded to enter in a corresponding socket in a casting 11 swiveled to the foot end of the leg 2. The other end of the adjusting rod 10 is intended to extend through a casting 12 in the foot end of the leg 3, being provided with oppositely extending lugs 13 designed to enter notches of a rack 14 on the casting 12 and provided also

with a handle portion preferably in the form of a hook 15. By this means, after the board 1 has been adjusted to its required elevation by means of the rack 5 and the pivotal connection between the legs 2 and 3, the foot portions of the legs may be held at the requisite distance apart and prevent the legs from being strained, by means of the adjusting rod 10 being engaged with the rack 14. The adjusting rod 10 is rendered adjustable longitudinally whenever desired by means of its screw threaded end working in the casting 11.

At the tapered end of the main board 1 there is a plate 17 constituting one member of a hinge and provided with a clamping wing 16 cast integral with it and adapted to be clamped to the tapered end of the main board. The wing sets up against the edge of the main board and prevents sidewise movements.

A rod 22 extends through the plate 17 and is secured thereto at one end. A support 23 is mounted to turn on the rod 22 and is provided with two opposite flat bearing surfaces. To one surface one end of the sleeve ironing attachment 26 is secured, while to the other bearing surface, one end of the bosom board 27 is attached. The two boards 26 and 27 are preferably connected intermediate their ends by a web 28. To the inner side of the support 23 for the sleeve and bosom board attachment, there is secured a cam plate 29 provided with two corresponding cam surfaces 30 surrounding the rod 22 and movable axially thereon in connection with the support 23. The two cam surfaces 30 are joined by recesses 31. A detent or latch bar 32 is mounted on the rod 22 and is capable of sliding thereon, but is prevented from turning. It is provided with two oppositely extending fingers that are designed to ride upon the cam surfaces 30 and the said detent is pressed into engagement with the cam surface by means of a helical spring 33 on the rod 22, and said spring bears at its rear end against the washer of an adjusting nut 34 threaded on said rod. By adjusting the nut 34 the tension of the spring 33 may be varied.

In the practical use of the sleeve and bosom board attachment, after the clamping bracket or support 16 has been secured to the tapered end of the main board 1, the said attachment may, if desired, be held in a vertical position automatically by means of the spring hinge constituted by the members 17 and 18 or it may be swung down into operative position. If for example, it is swung down with the sleeve board 26 uppermost and the bosom board resting directly upon the main board 1 this relative position of the two boards 26 and 27 may be reversed whenever necessary or desired by first elevating the attachment, and then turning the same upon the rod 22 as an axis. In effecting this axial or turning movement of the attachment, it is manifest that the cam surface 30 will ride upon the oppositely extending arms of the detent 32 which will



yield in a rearward direction to allow the movement under some pressure and after the relative positions of the two boards have been changed or reversed, the arms of the detent will bind against the cams and upon the attachment being lowered again to operative position, the coaction between the said detent and the cams will hold the attachment securely as against lateral rocking movement of the main board 1, while the spring action of the hinge will tend to hold the board firmly in a longitudinal direction down upon the said main board. The pin 35 is secured on the rod 22 between the latch bar 32 and the cam plate 29. In reversing the sleeve and bosom board attachment the latch bar will unlock and the pin 35 will afford a rest for the spring 33 while the attachment is being reversed. When the attachment is brought into position for use the latch bar 32 will slide against the washer and spring making it to lock as shown in Fig. 1. It is of course to be understood that the working faces of the main board 1 and the sleeve and bosom boards 26 and 27 will be upholstered in any manner suitable for the uses to which they are to be put.

From the foregoing description in connection with the accompanying drawings, it will be seen that we have provided an improved construction of ironing board in which the main board is so mounted upon hinged or pivoted legs that it may be securely held at different elevations, one of the legs acting approximately underneath the center of the main board which allows a sufficient clearance at one end of the board so that skirts may be drawn over said end without hindrance and in which the spring for holding the board down upon the support portion of the legs, is in an out of the way position where it will not interfere with the operation and in which also the diverging ends or foot portions of the legs are connected together in an adjustable manner so that they will be held securely in different adjusted positions without the weight of the board straining them.

As best seen in Fig. 1 the hinged leg 2 of the board has its foot square underneath the tapered end of the main board 1, so that the board is prevented from tipping up or swinging about when pressure is used on the tapered end of the main board 1. The feet of the legs 2 and 3 extend transversely a considerable distance on each side of the legs as best seen in Fig. 2 and there are preferably recessed or cut out on their lower edges

as shown. In cross section they are preferably inclined on their lower surfaces as indicated best in Fig. 1.

Having thus described the invention what is claimed as new is:

1. In a device of the character described, the combination of the board the legs pivotally connected together at an intermediate point one of said legs being hinged to the board and the other arranged for adjustable connection therewith, one leg being provided with a rack, and an adjusting rod having a swivel connection with the other leg near the foot portion thereof and arranged for adjustable engagement in said rack.

2. A device of the character described, comprising a board provided on its under surface with a rack, legs pivotally connected together intermediate their ends, one leg being hinged to the board and the other arranged for engagement with said rack, one of said legs being provided near its foot portion with an open casing provided on its outer surface with a rack, and an adjusting rod connected to the foot portion of the other leg and provided at one end with oppositely extending lugs designed to engage with the rack formed in said casing.

3. A device of the character described comprising a board, legs pivotally connected together and arranged to support said board at different elevations, one of said legs being provided with a roller, a compression spring secured at one end to said leg, and a cable connected to the board and to the other end of said spring and arranged to engage said roller.

4. A device of the character described, comprising a pair of legs pivotally connected together intermediate of their ends, a board hinged to the upper end of one leg and provided with a rack, and a tension device connected at one end to the board at a point intermediate of the rack and the point of connection of the board with the hinged leg, said tension means being also operatively connected to one of the legs below the pivot point and bearing against said leg above the pivot point, whereby to exert a tension to draw the two legs towards the board and the lower ends of the two legs together.

5. A device of the character described, comprising a pair of legs pivotally connected together intermediate of their ends, a board arranged for adjustable engagement by the other leg, and a tension device connected to one of said legs below the pivot point and adapted to bear against the leg to which it is attached at a point above the pivot point, the upper end of said tension device being connected to the board.

In testimony whereof we affix our signatures in presence of two witnesses.

EARNEST H. BUSCH. [L. S.]  
OLIVER R. PURCELL. [L. S.]

Witnesses:

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