Dec. 29, 1925. 1,567,168

K. B. OLANDER

FOLDING IRONING TABLE

Filed June 30, 1924 3 Sheets-Sheet 1

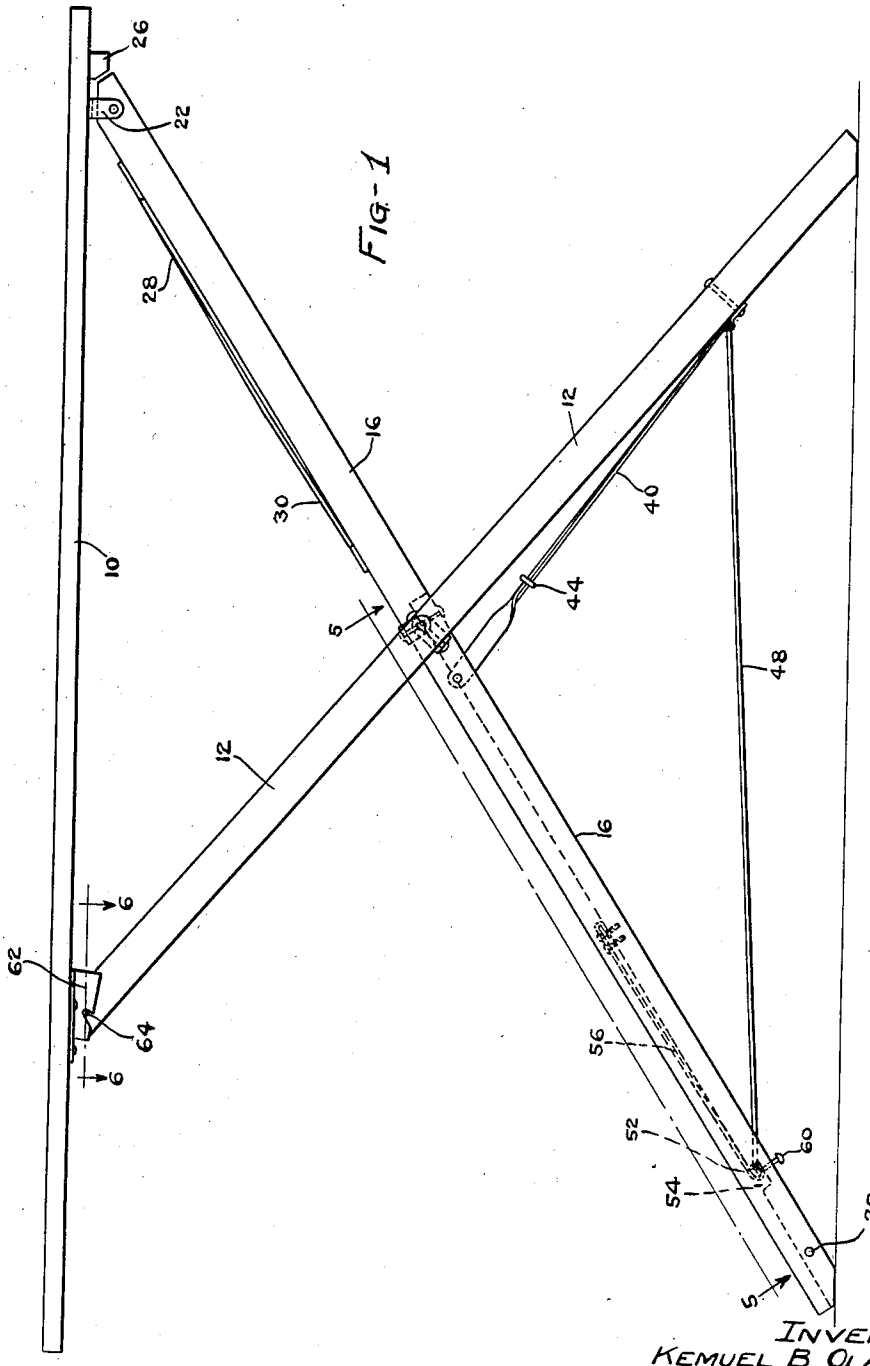


FIG. 1

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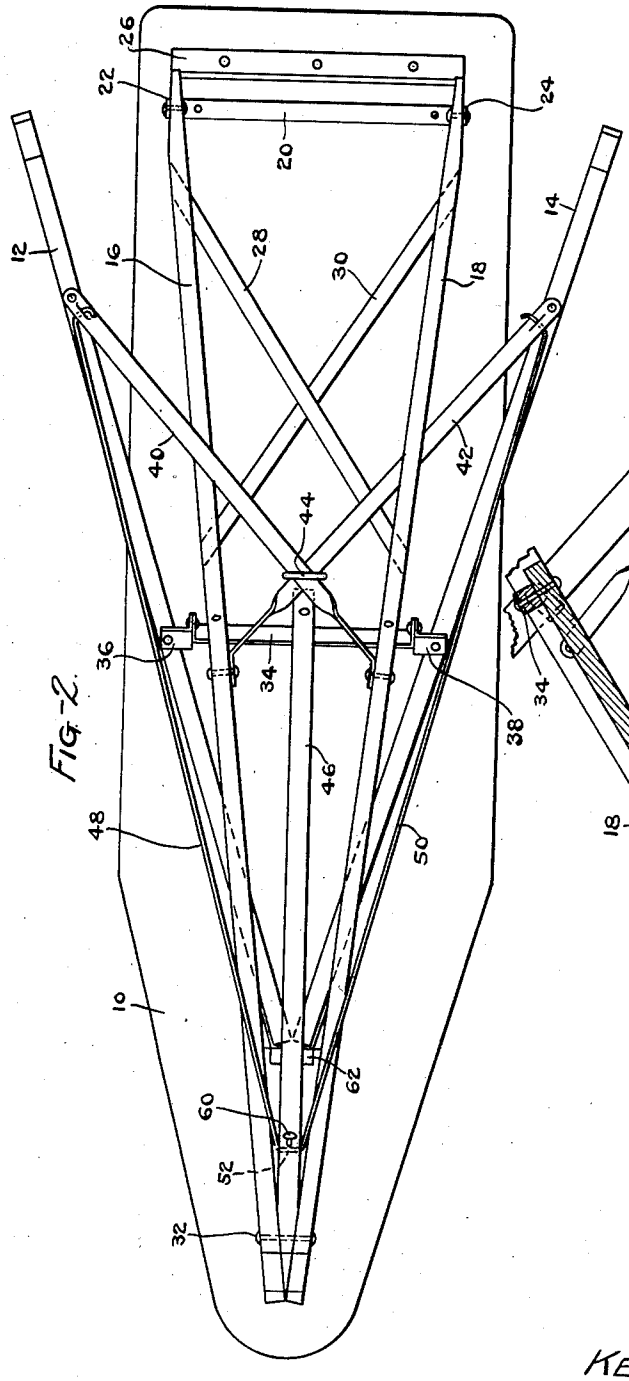


FIG-2.

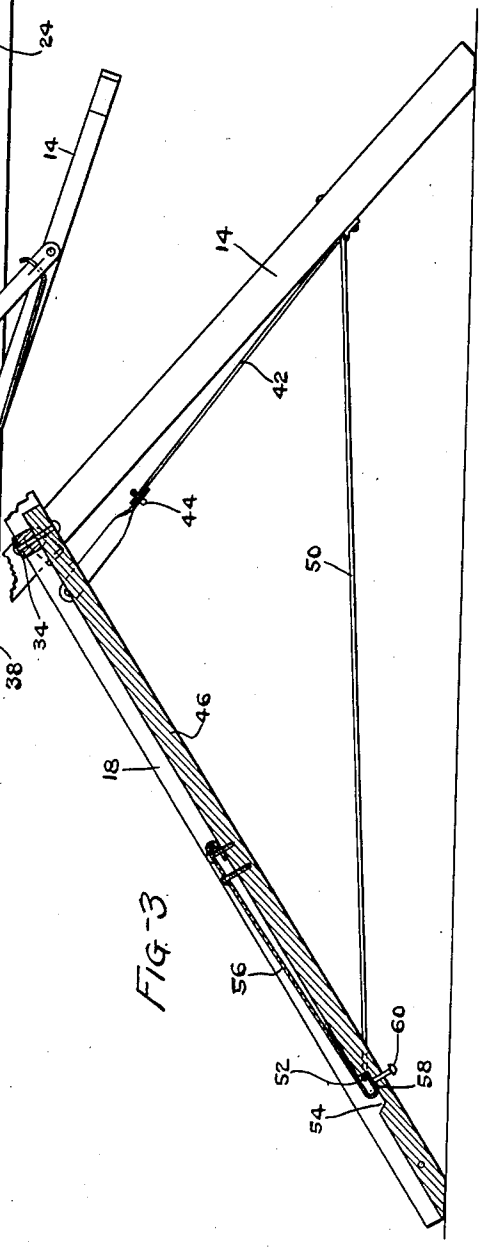


FIG-3.

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3 Sheets-Sheet 3

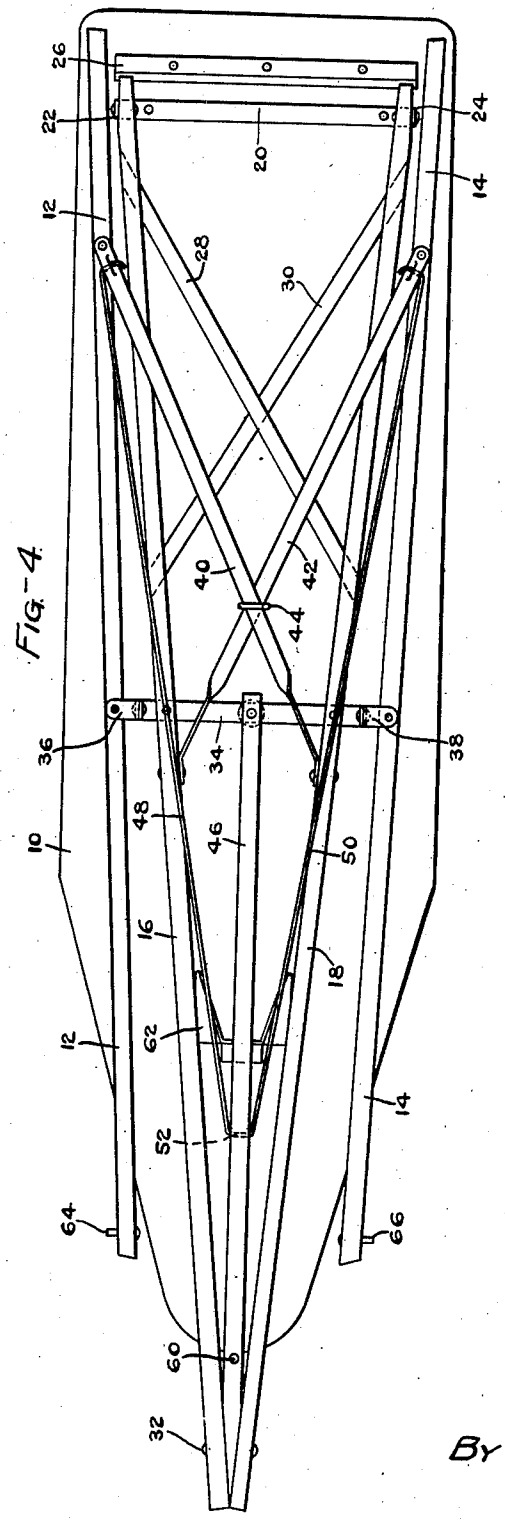


FIG. 4.

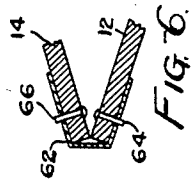


FIG. 6.

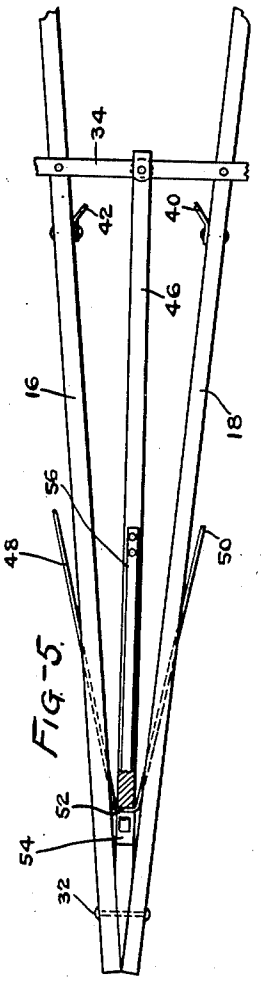


FIG. 5.

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Patented Dec. 29, 1925. 1,567,168

UNITED STATES PATENT OFFICE.

KEMUEL B. OLANDER, OF MINNEAPOLIS, MINNESOTA.

FOLDING IRONING TABLE.

Application filed June 30, 1924. Serial No. 723,235.

To all whom it may concern:

Be it known that I, KEMUEL B. OLANDER, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Folding Ironing Tables, of which the following is a specification.

My invention relates to folding ironing tables and an object is to provide a light and portable ironing table of simple and strong construction which can be readily folded into compact form for shipping and storage, and which can be readily unfolded so as to firmly support the ironing board for use in horizontal position. An object in particular is to provide the ironing table with supporting legs which are spread outwardly by the act of unfolding the table so as to provide a firm support and which are drawn together by the act of folding the table so as to economize space.

The full objects and advantages of my invention will appear in connection with the detailed description thereof, and the novel features embodied in my inventive idea will be particularly pointed out in the claims.

In the accompanying drawings, which illustrate one form in which my invention may be embodied,—

Fig. 1 is a side elevational view of the ironing table in set-up condition. Fig. 2 is a bottom plan view of the table as it appears in set-up condition. Fig. 3 is a sectional view of the lower portion of the device as it appears in set-up condition. Fig. 4 is a bottom plan view of the table in folded condition. Fig. 5 is a view in section on the line 5—5 of Fig. 1. Fig. 6 is a view in section on the line 6—6 of Fig. 1.

As shown in the drawings, I provide an ironing board 10 which has a pair of legs 12 and 14 and a second pair of legs 16 and 18, all of these legs being inclined and the pairs crossing each other when the table is set up for use. A metal strip 20 is secured crosswise to the underside of the board 10 toward the front end thereof, the ends of this strip being bent downwardly at right angles to form end portions 22 and 24, and the upper ends of the leg members 16 and 18 being pivotally attached to these bent ends. A cleat 26 is secured to the underside of the board 10 in front of the strip 20 and parallel thereto, the upper ends of the leg members 16 and 18 resting against this cleat when the table is set up and downward pressure is applied thereto. The leg members 16 and 18, which are strengthened by cross braces 28 and 30, converge as they extend rearwardly so as to meet at their rear ends, where they are secured together by a bolt or rivet 32. It will be understood that since the converging leg members are secured together at their lower ends they may be conveniently referred to as a rearwardly extending support. A metal strip 34 is secured across the leg members 16 and 18 about midway of their length, the ends of this strip being bent at right angles to form portions to which angle irons 36 and 38 are pivotally attached, these angle irons being in turn pivoted to the legs 12 and 14 respectively whereby these legs may have a swinging movement imparted thereto when the device is folded and unfolded. Cross links 40 and 42 of metal are pivotally attached at their forward ends to the legs 12 and 14, and at their rear ends to the leg members 16 and 18. A ring 44 slidably encircles the links 40 and 42 at the place where they cross each other. A bar 46 is secured at its forward end to the strip 34 and at its rear end is secured between the meeting ends of the leg members 16 and 18. A V-shaped rod has the forward ends of its two branches 48 and 50 pivotally secured to the links 40 and 42 near the points of attachment of the latter to the legs 12 and 14. The middle member 52 of this V-shaped rod is adapted to slide upon the upper surface of the bar 46 and is adapted to drop into a shouldered recess 54 formed near the lower end of this bar. A leaf spring 56 is secured at its forward end to the bar 46, and this spring rests upon the middle member 52 during its sliding movement. The rear end of the spring 56 has a forwardly bent portion 58 which fits into the recess 54, the middle member 52 resting upon this portion 58 when in the recess. A

slidable pin 60 is mounted in the bar 46 so that its upper end rests against the forwardly-bent portion 58. Secured to the underside of the board 10, toward its rear end, is a flanged angular member 62 in the flanges of which are inclined notches which are adapted to receive outstanding pins 64 and 66 carried by the rear ends of the legs 12 and 14.

The operation and advantages of my invention will now be obvious. Assuming that the device is in the set-up condition shown in Figs. 1, 2 and 3, the pin 60 is pushed upwardly, thereby releasing the middle portion 52 of the rod members 48 and 50 from the shouldered recess 54 so that the member 52 is capable of sliding upwardly into the position shown in Fig. 4. The pins 64 and 66 are now disengaged from the notches in the flanged member 62 and the leg members 16 and 18 are forced toward the board 10. By comparing Fig. 2, which shows the set-up condition, with Fig. 4, which shows the folded condition, it will be understood that as the leg members move toward the board the links 40 and 42 exert a pulling action upon the legs 12 and 14 and cause them to swing upon the angle irons 36 and 38 so as to be brought from the spread position shown in Fig. 2 into the position shown in Fig. 4 within the side limits of the ironing board 10, whereby greater compactness in the folded condition is produced. The reverse action occurs when the device is unfolded, the lower ends of the legs 12 and 14 being spread and the upper ends thereof being brought toward each other. The middle member 52 is engaged back of the shoulder formed by the recess 54, and the pins 64 and 66 are pushed into the inclined notches in the flanged member 62. The rod members 48 and 50 provide an efficient bracing between the two pairs of crossed legs, so that the ironing board is firmly supported when the device is set up for use.

I claim:

1. A folding ironing table comprising an ironing board, an inclined support pivotally attached to one end of said board, a pair of inclined legs pivotally attached to said support, means for removably attaching the upper ends of said legs to the other end of said board, and a pair of cross links connecting the lower portion of said legs with intermediate portions of said support respectively below the pivotal connection of the legs therewith whereby the lower ends of said legs will be spread during the unfolding operation and will be brought toward each other during the folding operation.

2. A folding ironing table comprising an ironing board, a rearwardly-extending support pivotally attached to the front of said board, a pair of forwardly-extending legs pivotally attached to said support, means for detachably securing the upper ends of said legs to the rear portion of said board, and a pair of cross links connecting the lower portion of said legs with intermediate portions of said support respectively below the pivotal connection of the legs therewith whereby the lower ends of said legs are spread during the unfolding operation and are brought toward each other during the folding operation.

3. A folding ironing table comprising an ironing board, a rearwardly-extending support consisting of two leg members pivotally attached to the front of said board, said leg members converging so as to meet at their rear ends and occupying a downwardly-inclined position when the table is set up for use, a pair of forwardly-extending legs intermediately pivoted to an intermediate portion of said support, means for detachably securing the upper ends of said legs to the rear portion of said board, a pair of cross links connecting the lower portions of said legs with intermediate portions of said support respectively below the pivotal connection of the legs therewith whereby the lower ends of said legs will be spread during the unfolding operation and will be brought toward each other during the folding operation, a V-shaped brace rod having its ends pivotally attached near the lower ends of said legs, and means for releasably securing the middle portion of said brace rod to the lower portion of said support.

4. A folding ironing table comprising an ironing board, a transverse strip secured to the lower side of said board near its front end, said strip having its ends bent out at right angles, a rearwardly-extending support consisting of two leg members pivotally attached to said ends, said leg members converging so as to meet at their rear ends and occupying a downwardly-inclined position when the table is set up for use, a transverse strip secured to an intermediate portion of said support, said strip having its ends bent out at right angles, angle iron members pivotally attached to said bent ends, a pair of forwardly-extending legs intermediately pivoted to said angle iron members, a flanged member secured to the lower side of said board toward its rear end, said member having inclined notches in its flanges, outstanding pins secured to the upper ends of said inclined legs and adapted to be detachably received in said notches, a pair of cross links connecting the lower portion of said legs with the intermediate portions of said support respectively below the pivotal connection of the legs therewith whereby the lower ends of said legs will be spread during the unfolding operation and

will be brought toward each other during the folding operation, a bar extending between the middle portion of said last-mentioned transverse strip and the rear end of said support, a V-shaped brace rod having its ends pivotally attached near the lower ends of said legs, said bar having a shouldered recess in its upper surface adapted to receive the middle portion of said brace rod, and means for releasing said middle portion from said recess.

In testimony whereof I hereunto affix my signature.

KEMUEL B. OLANDER.