

Nov. 11, 1952

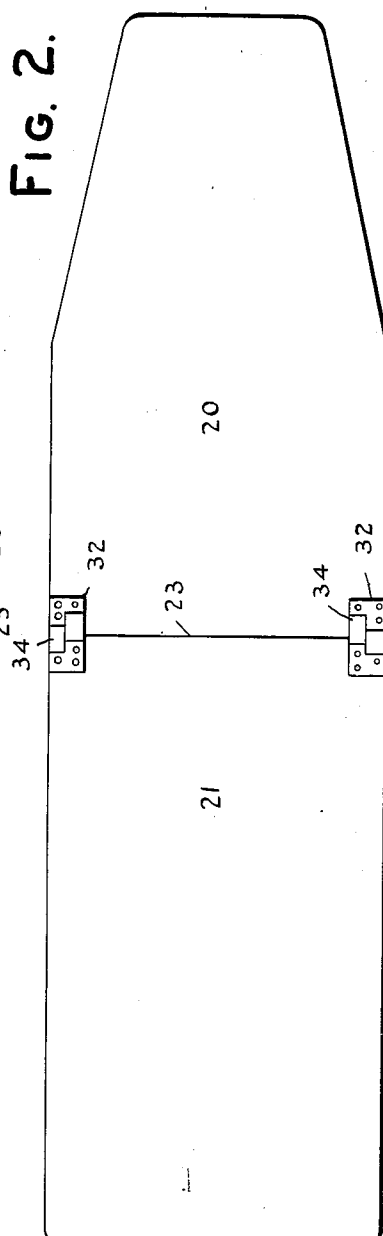
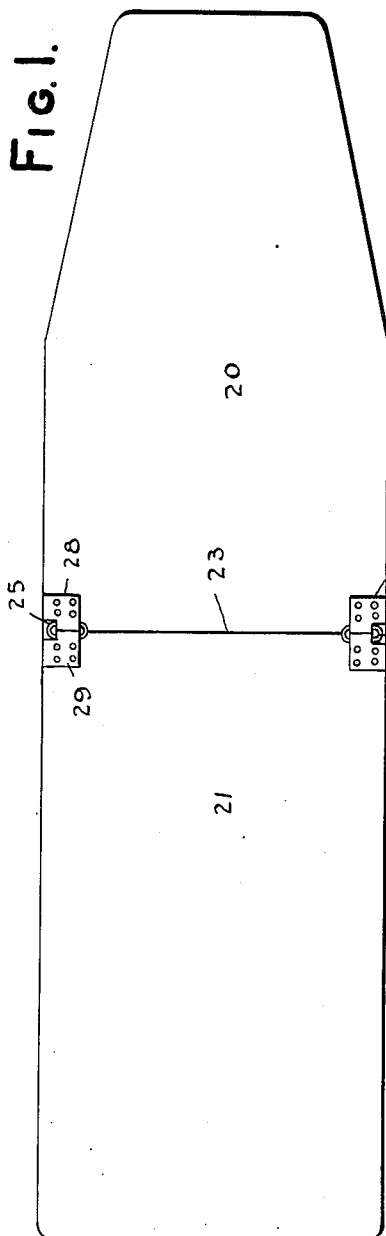
A. P. LANTZ

2,617,214

HINGED SECTIONAL IRONING BOARD

Original Filed Feb. 6, 1947

2 SHEETS—SHEET 1



Inventor
ALPHA PERRY LANTZ

By *Milam Milam*
Atty

Nov. 11, 1952

A. P. LANTZ

2,617,214

HINGED SECTIONAL IRONING BOARD

Original Filed Feb. 6, 1947

2 SHEETS—SHEET 2

FIG. 3.

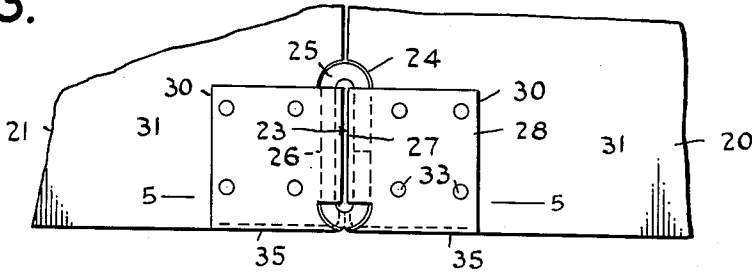


FIG. 4.

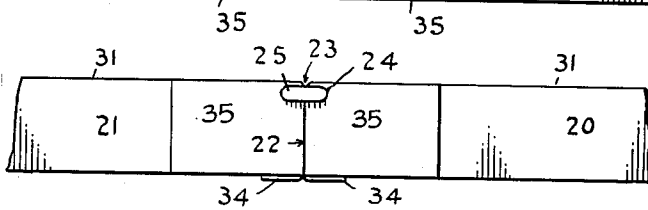


FIG. 5.

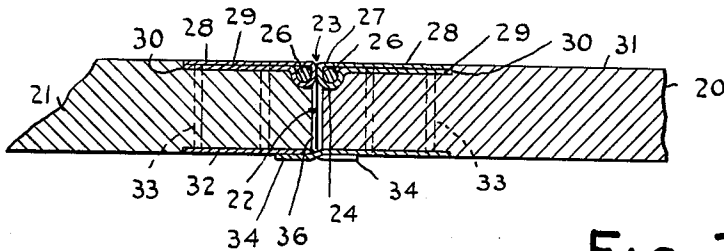


FIG. 6.

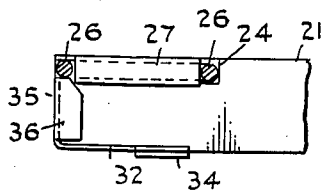


FIG. 7.

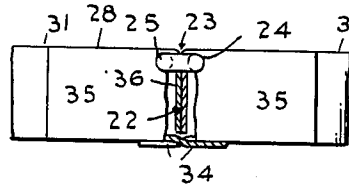


FIG. 8.

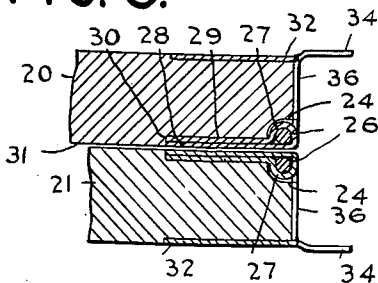
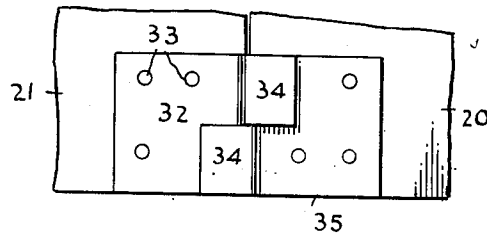


FIG. 9.



Inventor
ALPHA PERRY LANTZ

Milam Milam
Atty

UNITED STATES PATENT OFFICE

2,617,214

HINGED SECTIONAL IRONING BOARD

Alpha Perry Lantz, Washington, D. C.

Original application February 6, 1947, Serial No. 726,888. Divided and this application April 21, 1948, Serial No. 22,285

3 Claims. (Cl. 38—139)

1

This application is a division of application Serial No. 726,888, filed February 6, 1947, now Patent No. 2,542,037.

This application relates to an improved hinged sectional ironing board of the type adapted to be folded into compact form rendering the same easily portable as in a suitcase or conveniently carried package.

The invention is designed to supply a common need of people traveling from place to place and stopping at hotels or apartments where ironing boards are not usually at hand, in meeting emergent or desired uses, it is simply necessary for one to unfold his own board, accompanying his package, and attach it to a convenient means, as the usual dresser drawer, in a position for ironing.

In an ironing board of the character referred to the sections of the board are rendered self-supporting, so to speak, that is, capable of performing their functions when extended and temporarily mounted at the inner end of the inner section of the board upon an opened drawer or the like, rendering it unnecessary to provide props or legs for the outer or free end section of the board, and leaving the board entirely unobstructed throughout for the slipping of garments thereover and therearound in the manipulation of the latter when ironing the same.

Two primary objects underlie the preferred embodiment of the invention, one being the special and novel formation of the hinging means connecting the foldable sections of the board, enabling one section to be folded flat upon the other while affording no projecting elements above the plane of the top of the board when open to ironing position so that a continuous smooth top surface of the board may be mounted; and the other being the special and novel attaching means for connection with a dresser drawer and the like to support the drawer when in unfolded or ironing position, in a substantially level position, the latter means comprising hooks and shanks of minimum thickness, but sufficient strength, and means associated therewith for adjusting the hooks and shanks to accord with conditions found in the dresser or the like the adjusting means being located substantially within the area of the bottom of the inner section of the board to offer no substantial obstructions or projections below the plane of the bottom of the board that might interfere with the arrangement of the board when rested upon the top of the front of the dresser when the board is hooked into the dresser or the like, as

2

by engagement behind the bridge piece, always present in a dresser or the like, and spanning the drawer opening.

In the said preferred embodiment of the invention will be found important and advantageous details of construction and arrangement, all of which will be readily understood from the specific description hereinafter contained when read in connection with the accompanying drawings forming part hereof and wherein said preferred embodiment, and others, are illustrated.

In the drawings:

Figure 1 is a top view of the complete ironing board in unfolded or ironing position.

Figure 2 is a bottom view of the same, detail parts being shown diagrammatically but completely illustrated in other figures.

Figure 3 is a fragmentary view of the abutting ends of the hinged sections of Figure 1, enlarged, to illustrate one of the hinge members, it being understood that the hinge members are alike.

Figure 4 is an end view of the same.

Figure 5 is a vertical longitudinal sectional view on the line 5—5 of Figure 3.

Figure 6 is an end view of one of the abutting ends of Figure 3, parts of the hinged members being shown in section.

Figure 7 is an edge view of Figure 6, parts being broken away to show the inner construction of the abutting ends of the board.

Figure 8 is a vertical sectional view through abutting end portions of the board, the one section of the board being folded onto the other.

Figure 9 is a bottom view of Figure 3.

Figures 10 and 11 are respectively a cross section and a detached view illustrating a modified formation of hinge member.

Referring more specifically to the drawings 20 indicates the outer section and 21 the inner section of the hinged sectional board, of a shape so that when the sections are unfolded, as in Figure 1, the same will be contoured in resemblance to a conventional ironing board. These sections are composed of suitable material, light in weight and strong and rigid in character, preferably wood, but in instances metal such as aluminum, or plastics may be utilized.

In fulfilling the purposes or objects of the present invention, it is desirable that the outer section 20 may be folded over and upon the top of the inner section 21 and to better enable this to be done it will be observed that the thickness of these sections be of substantial depth for three purposes (see Figure 5). First of all it is highly important that the outer section 20 be self-sus-

taining, that is, devoid of any such additional elements as legs or props to which end the abutting edges 22 extend well below the upper hinged edges 23 thereof to assist in relieving the strain on the hinges incident to downward pressure, in ironing, on the outer section 20; that the hinges be so arranged that the folding of the outer section 20 may be downwardly onto the inner section 21 without any interference in the movement of portions thereof to the complete folding of the sections; and also that the hinging be of a form to occupy a position completely below the plane of the surfaces of the board, when the sections thereof are extended for ironing, so that the combined ironing surfaces of the board will be in the same plane throughout and smooth, to avoid projecting parts above the surface of the board that would obstruct or interrupt the movement of an ironing implement over the ironing face of the board. Therefore, the upper adjacent corners of the meeting edges of the board are formed with recesses 24 of substantial length (Figure 3) at each side of the board in which metal hinge links 25 are located, and parallel arms 26 of the links passing through tubular keepers 27 formed by folding flat sheet metal bent upon itself (Figure 5) and securing the overlying plates 28 and 29 thereof in complemental relatively shallow recess portions 30, in the upper faces of the board sections, so as to be flush and continuous with the ironing faces 31 of said sections. The plates 28 and flanges 29 being conveniently fastened through the body of the sections and through a reinforcing plate 32, similarly embedded in the bottom surfaces of the sections, by rivets 33. This arrangement and formation of hinging will permit the board sections, when extended, to be perfectly flat throughout their ironing face, will strongly support the outer section through the immediate hinge construction braced for considerable depth below the hinge by the contacting portions of the meeting faces of the sections below the hinge (Figure 5), and will permit the outer section to be folded flat onto the surface of the inner section without interference or obstruction (Figure 4).

To further strengthen the meeting ends of the sections 20 and 21, the lower plates 32 each carry projecting parts 34, adapted to underlie the opposite plate when the sections are opened to ironing position (Figures 2, 5 and 9), and preferably the metal of the plates 32 is carried upwardly and around the side edges of the sections 20 and 21 as shown at 35 to the top plates 29 and formed as parts thereof, and inwardly as at 36 to overlie or embed in the meeting ends of the sections 20 and 21. The wooden, or other portions of the material of the sections is thus preserved against breaking, chipping or cracking under the changes or weight of throwing the outer section 20 to open position which may at times occur in careless or indifferent setting up and use of the board.

In folding the outer section 20 of the board over onto the section 21 thereof, it will be seen that as the section 20 is swung upwardly it will be at the same time raised with reference to the section 21 through the medium of the hinge links 25 and the upper adjacent corners of the board sections cannot interfere with each other during the folding movement of the board. Instead of having the hinge member 25 in the form of a complete loop, as illustrated in Figure 3, the same may be of the formation illustrated in Figures 10 and 11 wherein it will be seen that the sub-

stitute for the link is formed of a U-shaped member 37 adapted to have its arms 38 each received into the bearing portion of a keeper 39, the securing flanges of the latter being indicated at 40 and 41 after the fashion of the equivalent construction illustrated in Figure 5.

The arms of the U-shaped member 37 are grooved as at 42 and the bearing portion of the keeper 39, in this instance, indented or depressed as at 43 to permit the hinge member 27 to have freedom of rotative movement while at the same time being held against endwise displacement of the arms 38 from the keepers 39.

It will, of course, be appreciated that a suitable means for attaching the ironing board to a convenient piece of furniture, when desired for use, may be associated with the inner section of the ironing board, as fully disclosed and claimed in the parent application Serial No. 726,888, but inasmuch as the claims to this feature are retained in the parent case and no claim thereto is made herein, the illustrations hereof are confined to the divisible matter constituting the subject of this divisional case.

I claim:

1. In combination with a folding ironing board comprising inner and outer sections having abutting ends, with each section having a recess in its top surface communicating with a more deeply channeled portion at its respective abutting end, hinge means pivotally connecting said sections together and comprising a pair of hinge leaves, each leaf formed from a sheet of metal bent upon itself to provide superimposed metal plates and a pivot receiving sleeve connecting the said plates, said sleeve being flush with the top plate and depending below the plane of the lower plate, and a pivotal link having a pair of connected arm portions each of which is received in a respective sleeve, the hinge leaf being attached to the board sections and seated within the first mentioned recess with the depending pivot receiving sleeve seated in the more deeply channeled portion; and means attached to the board sections beneath the hinges to maintain the same in open position.

2. In combination with a folding ironing board comprising inner and outer sections having abutting ends, with each section having a recess in its top surface communicating with a more deeply channeled portion at its respective abutting end, hinge means pivotally connecting said sections together and comprising a pair of hinge leaves, each leaf formed from a sheet of metal bent upon itself to provide superimposed metal plates and a pivot receiving sleeve connecting the said plates, said sleeve being flush with the top plate and depending below the plane of the lower plate, and a pivotal link having a pair of connected arm portions each of which is received in a respective sleeve, the hinge leaf being attached to the board sections and seated within the first mentioned recess with the depending pivot receiving sleeves seated in the more deeply channeled portion; and means attached to the board sections beneath the hinges to maintain the same in open position, said means comprising a plate member attached to the bottom surface of the one board member and having an extended portion beneath the other board member.

3. In combination with a folding ironing board comprising inner and outer sections having abutting ends, with each section having a recess in its top surface communicating with a more deeply channeled portion at its respective abutting

5

end, hinge means pivotally connecting said sections together and comprising a pair of hinge leaves, each leaf formed from a sheet of metal bent upon itself to provide superimposed metal plates and a pivot receiving sleeve connecting the said plates, said sleeve being flush with the top plate and depending below the plane of the lower plate, and a pivotal link having a pair of connected arm portions each of which is received in a respective sleeve, the hinge leaf being attached to the board sections and seated within the first mentioned recess with the depending pivot receiving sleeve seated in the more deeply channeled portion, and means attached to the board sections beneath the hinges to maintain the same in open position, said means comprising a plate member attached to the bottom surface of the one board member and having an extended por-

6

tion beneath the other board member, and a side portion extension of the plate member bent inwardly therefrom and engaging the abutting ends of the sections, said side portion extension being flush with the abutting ends of said sections.

ALPHA PERRY LANTZ.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
328,568	Costello -----	Oct. 20, 1885
695,992	Allen -----	Mar. 25, 1902
864,617	Culbertson -----	Aug. 27, 1907
918,802	Wheat -----	Apr. 20, 1909
1,770,104	Fox -----	July 8, 1930