July 12, 1932. J. WORLEY, JR., ET AL 1,866,691

IRONING BOARD CLIP

Filed Aug. 1, 1930

Fig. 3.

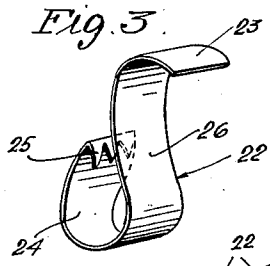


Fig. 1.

Fig. 2.

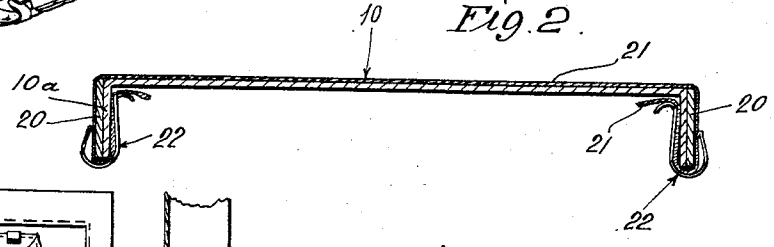


Fig. 4.

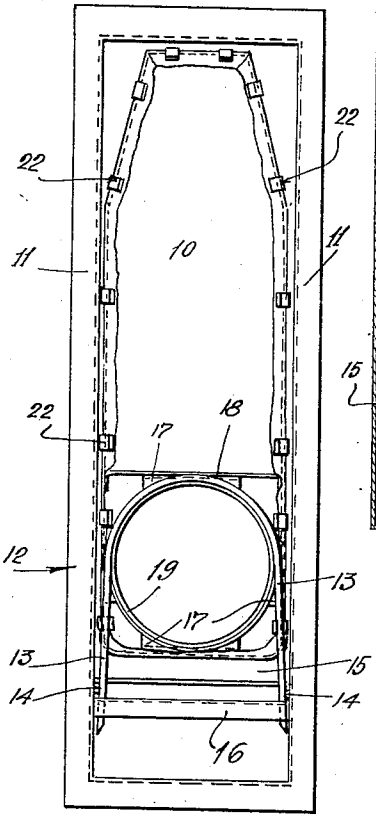


Fig. 6.

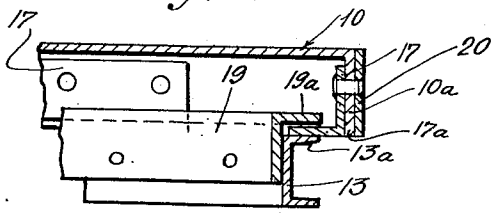


Fig. 5.

Inventors
John Worley, Jr.
Ralph J. Burke.

Attorney.

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UNITED STATES PATENT OFFICE

JOHN WORLEY, JR., OF PASADENA, AND RALPH J. BURKE, OF LOS ANGELES, CALIFORNIA, ASSIGNORS TO WORLEY & CO., OF PICO, CALIFORNIA, A CORPORATION OF CALIFORNIA

IRONING BOARD CLIP

Application filed August 1, 1930. Serial No. 472,430.

This invention has to do generally with ironing boards, and is particularly concerned with fastening devices for securing fabric covers thereto. It is a general object of the invention to provide an extremely simple and economical form of fastener whereby a cover may be tightly stretched over the board and secured thereto without loss of tension, and maintained in tightly stretched condition while the ironing board is being used.

The invention may be characterized as comprising a clip, made preferably of a single resilient piece adapted to be applied to an ironing board having a peripheral flange around which the cover is wrapped. The shape of the clip is such that it may be slipped over the flange so as to bear against opposite sides thereof and to grip the cover with such security as to prevent it from being pulled around the flange and loosened over the board. It may be mentioned that the present type of clip is particularly satisfactory in that it may be applied to the board and removed therefrom in the simplest manner, so that but little time is required to change covers. The clip is of further advantage in that although it holds the cover with absolute security, it will not cause the cover to become torn as the clip is applied to or removed from the board.

The invention will be understood most readily and fully without further preliminary discussion, from the following detailed description of a typical form of clip embodying the invention, reference being had for purposes of description to the accompanying drawing, in which:

Fig. 1 is a bottom perspective view showing an ironing board with the cover secured thereto by our improved form of clip;

Fig. 2 is an enlarged section on line 2—2 of Fig. 1;

Fig. 3 is an enlarged perspective view of one of the clips;

Fig. 4 shows the ironing board within a cabinet or case in which the board is contained when not in use;

Fig. 5 is a side view of the board showing the latter to be supported in a horizontal position from the case, one of the sides of the case being shown in section; and

Fig. 6 is a fragmentary enlarged section on line 6—6 of Fig. 5, showing substantially a half section of the swivel mounting for the board.

In the drawing we have shown for purposes of describing our invention, a typical form of ironing board adapted to the use of the present type of clip. It will be understood however that the clip is applicable to any suitable type of ironing board constructed in a manner such as to provide a more or less thin edge or flange to which the clip may be applied, and therefore that the particular form of board shown herein, though preferred, is not to be considered as limitative on the invention.

Referring first to Figs. 4 and 5 the ironing board 10 is shown to be mounted on a case 11 of the usual type adapted to be built into a wall. In Fig. 4 no door is shown on the case in order to illustrate the board mounting most clearly. The board 10 is supported for horizontal turning movement about a swivel joint, generally indicated at 12, on a U-shaped bracket 13 pivoted at 14 to the sides 11*a* of the case. In the horizontal position of the board when in use and as shown in Fig. 5, bracket 13 is supported by braces 15 and 16 joined to the sides of the case, the bracket being swung so as to bear against the braces at opposite sides of the pivot 14 as shown. Braces 15 and 16 are arranged so as to permit the bracket 13 to be moved to vertical position when the ironing board is swung into the case.

The swivel mounting 12 of the board on the bracket 13 enables the board to be swung horizontally to any desired position of angularity relative to the wall in which the case is contained. Referring particularly to Fig. 6, the swivel mounting 12 comprises a series of interiorly circular edge flange segments 17, see Fig. 1, riveted to the depending flange or skirt portion 10*a* of the board at the sides and inner end, and to brace 18 extending between the sides of the board. The flange segments 17 rest on the upper surface 13*a* of the supporting bracket, and the lower por-

tions 17*a* thereof are more or less snugly confined between said upper surface of the bracket and the upper flange 19*a* of an annular ring 19 of angular cross section fitted within the outer curved portion of the bracket. The circular flange segments 17 thus may slide on the bracket around ring 19 to permit horizontal swinging movement of the board as will be readily understood.

As shown most clearly in Fig. 2, the ironing board 10 is shaped to provide a peripheral depending flange 10*a* extending along the sides and both ends of the board. Preferably, reinforcing strips 20 will be secured to the outer side of flange 10*a* for purposes of strengthening and increasing the rigidity of the board. It may be stated that in most instances the board will be constructed of suitable sheet metal. A fabric covering 21 is applied to the board, the covering being tightly stretched over the surface of the board and around the peripheral flange thereon, including the reinforcing strip 20, the cover being secured to the board by a plurality of clips 22 applied to the flange at suitable spaced intervals therealong. For purpose of description the reinforcing strip will hereinafter be considered a portion of the flange 10*a*.

Our preferred form of clip consists of a substantially S-shaped resilient piece adapted to be slipped over the edge of the flange, opposing portions of the clip being spread apart so as to bear tightly against the cover at both sides of the flange. As shown in Fig. 3, the clip is shaped to form upper and lower portions 23 and 24, of reverse curvature, the upper end of the lower curved portion terminating at substantially the vertical center point of the clip, and the end of said lower curved portion being bent inwardly and downwardly to form teeth 25. These teeth lie substantially opposite the intermediate portion 26 of the clip, the term "intermediate portion" being applied to that point 26 of the clip at which the curvature of the upper and lower portions reverses. Although the clip may be described generally as being S-shaped it may be mentioned that when the clip is applied to the flange, as shown in Fig. 2, the portion 26 intermediate the curved ends 23 and 24 will be substantially straight so that the upper curved end of the clip will bear against the flange, or more properly the fabric, at a point further away from the edge of the flange than the point of engagement of the teeth 25 therewith, the advantages of which will presently appear. The clip will be made of high resiliency metal such that it will bear tightly against the fabric at the upper curved end 23 and at the toothed end 25, as a result of the sides of the clip being spread apart in being slipped over the flange.

To properly apply the clip to the flange, the clip, considering for example the one shown at the left in Fig. 2, is given a turning or rocking movement toward the left as it is slipped over the flange, that is the clip is started at first with its upper right hand end spaced from the inner surface of the flange, and as the clip is slipped over the flange it is simultaneously turned to the left. As a result of this movement, the teeth 25 have a tendency to pull the cover downward around the outside of the flange and to cause the cover to be tightened over the surface of the board. Any looseness of that portion of the cover within the clip is taken up as the clip is slipped over the flange, due to the upward sliding movement of the righthand side of the clip along the inner surface of the flange. It may be stated at this point that although we have shown the cover to be wrapped around the inside of the flange as well as the outer surface thereof, the clip will serve to securely hold the cover in place should the latter extend to the bottom and down the outside only of the flange.

In removing the clip from the flange, the clip is turned in a reverse manner to that just described. By pressing downwardly on the upper curved portion 23 of the clip, the portions of the clip at opposite sides of the flange may be spread apart as the clip is turned, sufficiently to allow the side 26 to pass beneath the lower edge of the flange without necessitating downward movement of the entire clip to the point at which the toothed end would be moved off the flange. It will be noted that by virtue of the greater length of the side 26 of the clip, that portion is enabled to flex sufficiently to pass the lower edge of the flange as the clip is rocked to the right without necessitating downward movement of the teeth 25 to such an extent that the fabric would become torn thereby. In removing the clip the teeth will move downward to a certain extent, but the fabric will be sufficiently yielding to permit such movement of the teeth without the fabric becoming torn.

In securing the cover to the board, the clip may be applied to the cover around the flange at one side and end of the board. The cover may then be stretched laterally and longitudinally of the board and clips applied to the opposite side and end thereof, the first applied clips holding the cover with such security that it may be stretched as tightly as desired without pulling away from the flange.

It will be apparent of course that my improved form of clip may be used for attaching covers to supports or tables other than ironing boards. For instance this type of clip is very suitable for attaching covers to bridge tables so constructed as to provide a flanged edge over which the clip may be slipped. The invention may therefore in its broader aspects be considered as being applicable for applying covers to tables in gen-

eral, under which general category ironing boards may be classified.

We claim:

A cover fastening clip of the character described comprising a substantially S-shaped resilient piece of material having a reentrant and toothed fabric gripping end, said toothed end of the S-shaped piece of material lying substantially opposite the intermediate portion of the clip.

In witness that we claim the foregoing we have hereunto subscribed our names this 21 day of July 1930.

JOHN WORLEY, JR.
RALPH J. BURKE.