May 16, 1950 Y. AMBER 2,507,584

GARMENT ANCHORING DEVICE FOR IRONING BOARDS OR THE LIKE

Filed June 14, 1948

Fig. 1.

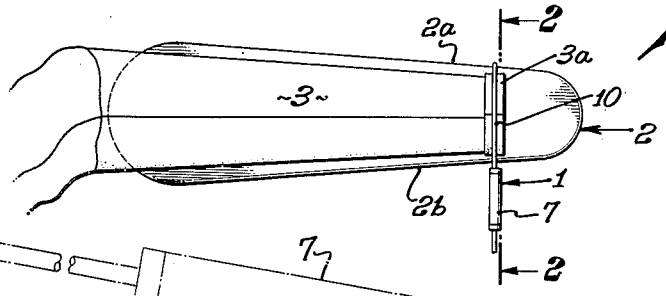


Fig. 2.

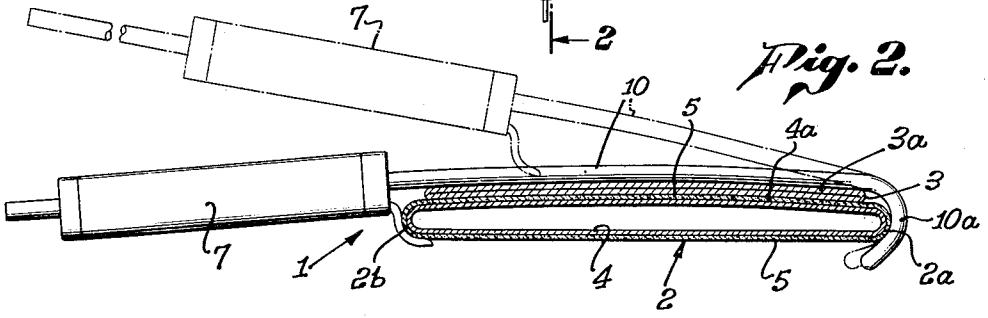


Fig. 3.

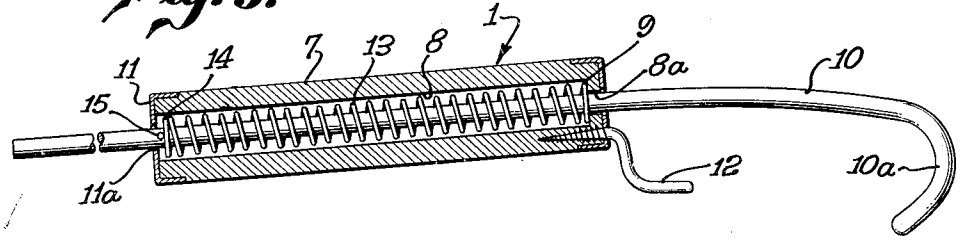


Fig. 4.

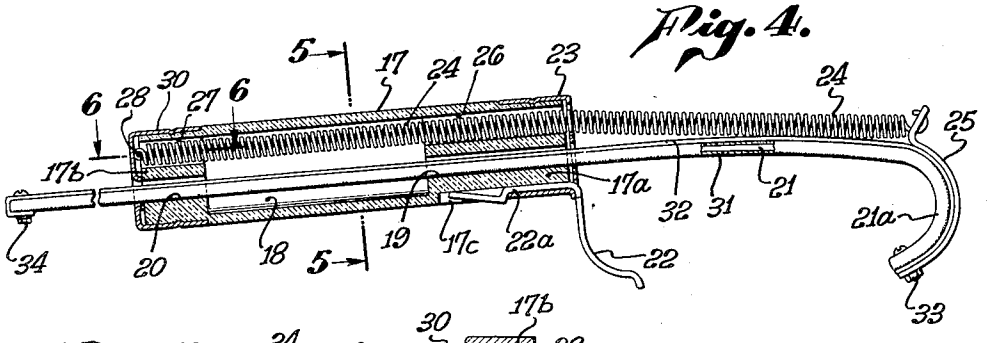


Fig. 5.

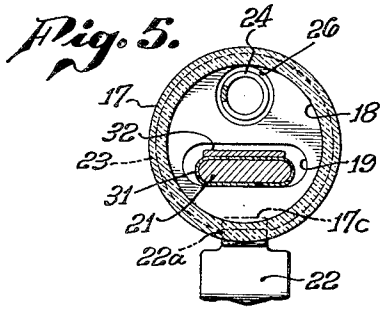
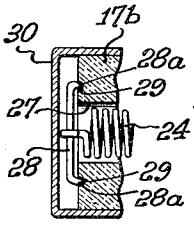


Fig. 6.



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GARMENT ANCHORING DEVICE FOR IRONING BOARDS OR THE LIKE

Yervant Amber, Los Angeles, Calif.

Application June 14, 1948, Serial No. 32,833

3 Claims. (Cl. 38—108)

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This invention relates to a clamping device; more particularly it relates to such a device for securing a garment to an ironing board, the buck of a clothes pressing machine, or the like.

This application is a continuation in part of my co-pending application entitled "Garment clamp" filed February 13, 1945, under Serial No. 577,700, now Patent No. 2,452,891, issued November 2, 1948. In said application, a device is disclosed and claimed adapted to span the ironing board and operable by one hand to clamping position to anchor a garment to the board or to release the garment, thus leaving the other hand of the operator free at all times to manipulate and arrange the garment if required. When the garment is secured by the clamp, both of the operator's hands are free for this purpose.

It is an object of this invention to provide an improved device of this character.

In the above mentioned device, the member for spanning the ironing board and the handle for manipulating the device, are in extensible relation. It is another object of this invention to provide such a device wherein the handle and the spanning are maintained in correct alignment for any adjusted position therebetween and any tendency of the handle to cramp or cock when the member is in any extended position is obviated.

It is still another object of this invention to provide such a device capable of use with ironing boards of a substantial range of widths.

It is still a further object of this invention to provide such a device having an improved spring arrangement for opposing extension of the clamp.

This invention possesses many other advantages and has other objects which may be made more easily apparent from a consideration of several embodiments of the invention. For this purpose there are shown several forms in the drawings accompanying and forming part of the present specification. These forms will now be described in detail, illustrating the general principles of the invention; but it is to be understood that this detailed description is not to be taken in a limiting sense, since the scope of the invention is best defined by the appended claims.

In the accompanying drawing:

Figure 1 is a top plan view of a conventional ironing board or the like, showing a trouser leg secured thereon with a device incorporating features of the invention;

Figure 2 is a section on an enlarged scale, taken substantially as indicated by line 2—2 of Figure 1;

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Figure 3 is an axial section of the device of Figures 1 and 2 on a further enlarged scale;

Figure 4 is a view similar to Figure 3, but showing a modified form of the invention; and

Figures 5 and 6 are sections on a further enlarged scale, taken substantially as indicated by correspondingly numbered lines of Figure 4.

Referring to Figures 1 and 2, a device incorporating features of the invention is generally indicated by the numeral 1 and is shown as applied to the buck member 2 of a conventional clothes pressing machine, anchoring the end of one leg 3 of a pair of trousers thereto. The buck member 2 is shown as comprising a hollow metal body 4 adapted to be supplied with steam in the usual manner, and having a slightly convex upper surface 4—*a* covered by suitable protective padding 5. It is to be understood that the use of the device with a buck of this type, is shown by way of example only, and that a device such as 1 is equally useful with bucks of other types and with ironing boards in general.

Referring particularly to Figure 3, the device 1 comprises a hollow handle 7 with a bore 8 having a reduced portion 8—*a* at its forward end forming a shoulder 9 and slidably accommodating an elongated clamping member 10 which extends through the handle 7. The rear end of the handle 7 is provided with a cap 11 suitably secured thereon and having an aperture 11—*a* cooperating with the reduced bore 8—*a* to guide the member 10. The outer end of the member 10 has a hook 10—*a* formed thereon which is in cooperative relation with a hook 12 secured to the forward end of the handle 7. A compression spring 13 extending about the member 10 is accommodated in the bore 8, being confined between the shoulder 9 and a collar 14 held in place on the member 10, as by a pin 15.

The arrangement is such that the spring 13 urges the member 10 inwardly through the handle 7, causing the hooks 10—*a* and 12 to approach, such movement being limited by engagement of the pin 15 and cap 11, so that the hooks 10—*a* and 12, when the device is not in use, are separated by a distance somewhat less than the width of the buck or ironing board 2. Thus, when the device is applied, the hooks 10—*a* and 12 are moved apart against the force of the spring 13 and grip the opposite edges of the board 2 in response to the force of the spring, confining the board between the hooks 10—*a* and 12.

In using the clamping device, the garment or portion thereof to be pressed, such as the trouser leg 3, is placed on the ironing board 2 and the

handle 7 grasped by the operator. The device 1 is then manipulated so that the elongated clamping member 10 extends downwardly across the particular part of the garment to be clamped, such as the cuff 3—*a* of the trouser leg, and the hook 10—*a* engaged over the far edge 2—*a* of the ironing board 2, as shown by the broken lines of Figure 2. The handle 7 is then pulled away from the hook 10—*a* until the hook 12 clears the near edge 2—*b* of the board and lowered to bring the member 10 against the trouser cuff 3—*a*. The handle 7 is then released to allow hook 12 to grip the near edge 2—*b* of the ironing board 2.

The cam-like action caused by the engagement of the hooks 10—*a* and 12, and the curved ironing board edges 2—*a* and 2—*b* respectively in response to the force exerted by the spring 13, causes that portion of the clamping member 10 to be pressed forcibly against the trouser cuff 3—*a*, anchoring the cuff against movement on the ironing board 2. This clamping action of the member 10 may be augmented by providing some resilience in the member.

It will be noted that but one hand is required to apply the clamp, thus allowing the operator free use of his other hand to adjust the garment during the clamping operation, an important advantage.

In the modified form of clamp shown in Figures 4, 5 and 6, a hollow handle 17 is provided as before, having a thin walled cylindrical chamber 18 intermediate its ends for reducing the weight. The end portions 17—*a* and 17—*b* of the handle 17 have aligned openings 19 and 20 for slidably accommodating an elongated clamping member 21 of generally flat rectangular cross section, which extends through the handle 17. The member 21 has a hook member 21—*a* formed on its outer end. A cooperating hook 22 is secured on the forward end of the handle 17 in any suitable manner, for example as by having a tongue 22—*a* confined in a groove 17—*a* in the handle 17 by cap or ferrule 23.

A tension spring 24 mounted above the member 21 serves to urge the hooks 21—*a* and 22 toward each other and to grip the ironing board 2. The outer end of the spring 24 is attached to the outer end member 21 by an arcuate clip 25, and extends inwardly of the handle 17 through aligned bores 26 and 27 provided therein. The inner end of the spring 24 is anchored to the handle 17 by means of a cross pin 28 which spans the rear end of bore 25 and is shown as having small projections 28—*a* engaging recesses 29 in the handle 17. A cap or ferrule 30 maintains the pin 28 in place.

The clamping member 21 is shown as having a woven fabric covering 31 for protecting garments against contact with the material of which the member 21 is formed. Furthermore, to guard this fabric cover 31 from wear by contact with the spring 24 (such as is likely to occur when the member 21 is in extended, clamping position), a thin metal strip 32 may be provided along the top of the member 21, secured to member 21 at the ends thereof by screws 33 and 34.

This form of clamp is applied to the ironing board 2 in the same manner and has the same clamping action as the first described form of the invention.

I claim:

1. A clamping device for use with an ironing board or the like, comprising: a hollow handle; a hook member fixed thereon; a second hook member for cooperating with the first mentioned hook member; an elongated clamping member adapted to span said ironing board and carrying said second hook member, said clamping member extending through said handle and being slidable therein; and spring means disposed adjacent one side of said clamping member, connected between said handle and said clamping member, urging movement between said handle and said clamping member to cause said hook members to approach and grip the ironing board.

2. A clamping device for use with an ironing board or the like, comprising: a hollow handle; a hook member fixed thereon; a second hook member for cooperating with the first mentioned hook member; an elongated clamping member adapted to span said ironing board and carrying said second hook member, said clamping member extending through said handle and being slidable therein; and spring means disposed adjacent one side of said clamping member, and at least partly within said handle, connected between said handle and said clamping member, urging movement between said handle and said clamping member to cause said hook members to approach and grip the ironing board.

3. A clamping device for use with an ironing board or the like, comprising: a hollow handle; a hook member fixed thereon; a second hook member for cooperating with the first mentioned hook member; an elongated clamping member adapted to span said ironing board and carrying said second hook member, said clamping member extending through said handle and being slidable therein; a fabric covering enclosing said clamping member; spring means disposed adjacent one side of said clamping member connected between said handle and said clamping member to cause said hook members to approach and grip the ironing board; and a protective strip secured on said member between said spring means and said covering.

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REFERENCES CITED

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

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Number	Name	Date
1,560,191	Allen	Nov. 3, 1925
2,452,891	Amber	Nov. 2, 1948