June 21, 1949. M. STAW 2,473,552

DEVICE FOR HEAT SEALING SEAMS

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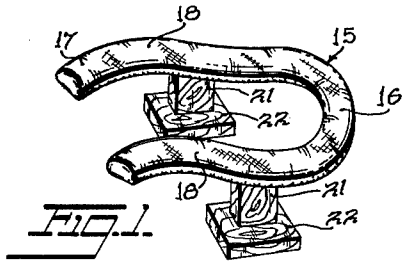


FIG. 1.

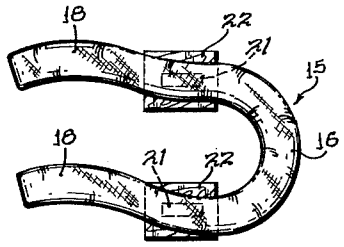


FIG. 2.

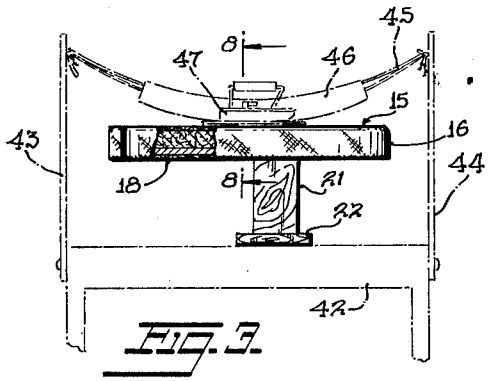


FIG. 3.

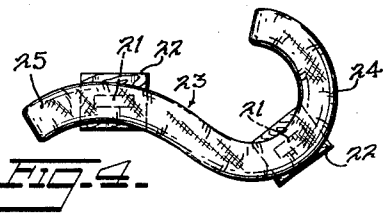


FIG. 4.

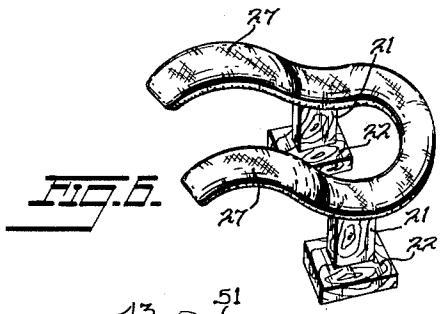


FIG. 6.

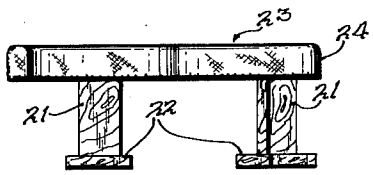


FIG. 5.

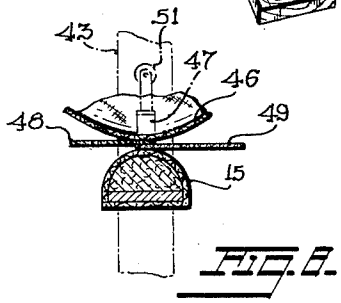


FIG. 8.

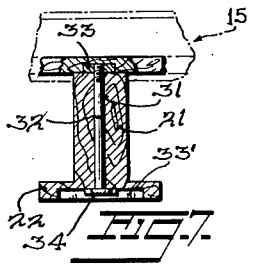


FIG. 7.

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DEVICE FOR HEAT SEALING SEAMS

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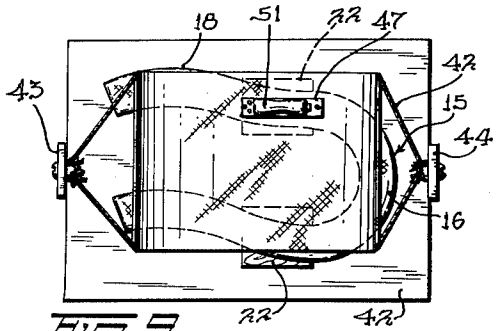


FIG. 9.

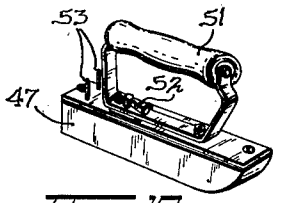


FIG. 10.

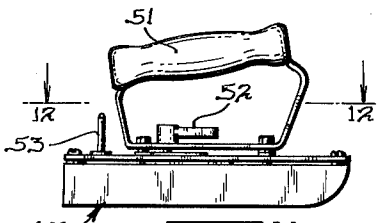


FIG. 11.

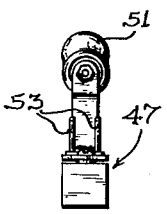


FIG. 13.

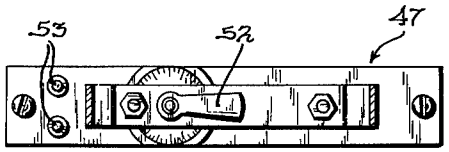


FIG. 12.

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UNITED STATES PATENT OFFICE

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DEVICE FOR HEAT SEALING SEAMS

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Application March 12, 1947, Serial No. 734,058

3 Claims. (Cl. 154—42)

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This invention relates to a device for heat sealing lapped seams without shine and more particularly an ironing board which is particularly adapted for effecting the heat sealing of a garment.

It is an object of the present invention to provide an ironing board which will be particularly adapted to receive material which is to be heat sealed along a curved line or seam such as in the forming of raincoats and other weather-proof garments, which is done by the adding of heat to make the connection of the overlapped pieces.

It is another object of the present invention to provide an apparatus wherein the cloth adapted to lie over the goods being worked upon will be retained at all times in a suspended condition over the ironing board so as to not require that the same be handled at any time as the parts are being heat treated and wherein it is only necessary to extend the iron over the top of the cloth and to draw the cloth down upon the surface being heat treated.

Other objects of the present invention are to provide an ironing board with a curved top adapted to be used for forming curved seams which is of simple construction, inexpensive to manufacture and efficient in operation.

According to the invention, there is provided a top which will have several curve formations therein of similar contour to the curved seam to be formed by the application of heat over overlapped pieces lying upon the top of the ironing surface. This ironing top is supported upon pedestals which can be rested upon a flat surface.

According to one form of the invention, the top part is generally of U-shape with the free ends of the legs curved laterally. In another form, the top part has been shaped as a letter S with one part curved or extended more than the other part for opposite ends. This S-shaped top can likewise be supported upon pedestals raised from a flat supporting surface.

In another form, there is provided a U-shaped member which not only has the ends or legs curved laterally but also has the ends curved upwardly so as to provide a support for a complex seam.

In order that the cloth adapted to be put over the portions of the material being heat treated will be ever present and such that by the application of the iron it can be extended onto the pieces being heat treated and wherein there is no necessity that the cloth be handled, the cloth is extended between two upright supports and is connected thereto by elastic pieces. As the iron is

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dropped down into the cloth, the cloth will be extended over the ironing board having the materials thereon to be heat treated and lying beneath the cloth.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is a perspective view of one form of the invention where the top part is in one horizontal plane and is of U-shape with the ends of the legs bent laterally.

Fig. 2 is a top plan view of the invention shown in Fig. 1.

Fig. 3 is a side elevational view of the form of the invention shown in Fig. 1.

Fig. 4 is a top plan view of an S-shaped form of top.

Fig. 5 is a side elevational view of the form of the invention shown in Fig. 4.

Fig. 6 is a perspective view of a form of the invention similar to that shown in Fig. 1 but wherein the legs are curved vertically as well as laterally.

Fig. 7 is an enlarged cross sectional view taken through the pedestal and illustrating one means of securing the pedestal to the top part.

Fig. 8 is a cross sectional view taken through the apparatus and through the ironing board to illustrate the operation of the apparatus and as viewed on line 8—8 of Fig. 3.

Fig. 9 is a top plan view of the apparatus looking down into the cloth which is extended between upright supports by elastic strips.

Fig. 10 is a perspective view of the special iron used in carrying out the process.

Fig. 11 is a side elevational view of the iron shown in Fig. 10.

Fig. 12 is a transverse cross sectional view taken on line 12—12 of Fig. 11.

Fig. 13 is an end elevational view of the iron.

Referring now particularly to Figs. 1 to 3, there is shown a top part 15 of generally U-shape having a closed curved end 16 and legs 17 which are laterally curved as indicated at 18. These curved legs are supported upon pedestals 21 having bases 22. With curves formed as shown, there is provided a better surface on which curved seams of material such as weather-proofing material can be disposed when being heat treated to seal the overlapping portions of the pieces together. The

seam can be curved and all of the overlapping portions will lie on the top of the top part evenly and squarely when the heat treating operation is being formed.

Referring now to Figs. 4 and 5, there is shown another form of the invention where the top part is in the form of a letter S, as indicated at 23, and this top part can have one end curved, as indicated at 24, to a greater extent than the opposite end 25. The top part 23 is likewise supported upon pedestals 21 with bases 22.

Referring now to Fig. 6, there is shown still another form of the invention which is similar to Fig. 1 except that the curved portions 18 are upwardly curved, as indicated at 27, as well as being laterally curved. This will provide for a better surface of certain goods or shapes which must necessarily have a compound curve seam.

Referring now to Fig. 7, there is shown an enlargement of the pedestal 21. This pedestal 21 has a small opening 31 therethrough upwardly through which extends a securing bolt 32 adapted to engage with a bolt 33 embedded in the under face of the top part. The base 22 is recessed, as indicated at 33', to receive head 34 of bolt 32.

Referring now particularly to Figs. 3, 8 and 9, there is shown the apparatus utilized for effecting the ironing operation. The ironing board is installed on a table 42 from which there extends upwardly upright members 43 and 44 between which there is suspended elastic members or pieces 45 supporting a cloth 46. By depressing the cloth with an iron 47, the heat will be applied to the goods being heat treated and the iron will draw the cloth downwardly thereover so as not to apply the heat directly to the goods. When the iron 47 is taken up the cloth 46 will be returned to a raised position and access is readily had to the heat treated goods on the ironing board. At no time is it necessary to arrange or rearrange the cloth 46. The cloth 46 is totally suspended between the upright members 43 and 44 and by the elastic members or pieces. The elastic pieces cause the cloth to be raised. The overlapped pieces are indicated at 48 and 49.

Referring now to Figs. 10 to 13, there is shown the iron 47 which is specially designed for this particular kind of work. This iron 47 has the usual handle 51 and a heat control device 52. The iron is narrow and is turned up at the forward end. Contact projections 53 extend upwardly from the rear of the iron and are adapted to receive a wire receptacle connected with a wall plug.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by United States Letters Patent is:

1. In combination with a table having a flat top surface, pedestals extended vertically from the top surface of the table substantially midway between the ends thereof, a padded pressing board mounted on the upper ends of said pedestals and upon which pieces of material to be heat treated may be placed with their adjacent edges overlapped, upright members mounted on the ends of the table on diametrically opposite sides of said pressing board, a pressing cloth disposed over said pressing board between the upper ends of said upright members, and means resiliently supporting said pressing cloth between the upper ends of said upright members, whereby an iron rested on said pressing cloth will lower said pressing cloth onto said pressing board to heat seal the adjacent edges of the pieces of material sandwiched between the adjacent faces of said pressing board and the lowered pressing cloth.

2. In combination with a table having a flat top surface, pedestals extended vertically from the top surface of the table substantially midway between the ends thereof, a padded pressing board mounted on the upper ends of said pedestals and upon which pieces of material to be heat treated may be placed with their adjacent edges overlapped, upright members mounted on the ends of the table on diametrically opposite sides of said pressing board, a pressing cloth disposed over said pressing board between the upper ends of said upright members, and means resiliently supporting said pressing cloth between the upper ends of said upright members, whereby an iron rested on said pressing cloth will lower said pressing cloth onto said pressing board to heat seal the adjacent edges of the pieces of material sandwiched between the adjacent faces of said pressing board and the lowered pressing cloth, said resilient supporting means comprises elastic members connected between opposite sides of said pressing cloth and the upper ends of said upright members.

3. As a new article of manufacture, a pair of upright members for attachment at their lower ends to opposite ends of a table, a pressing cloth for disposition over the top surface of the table between the upper ends of said pair of upright members, elastic members connected between opposite sides of said pressing cloth and the upper ends of said upright members resiliently supporting said pressing cloth, a pair of spaced pedestals for positioning on the top face of the table between said upright members and beneath said pressing cloth, and a padded pressing board mounted on the upper ends of said pedestals and having its upper surface spaced from the bottom face of said pressing cloth, whereby pieces of material may be placed on said pressing board with the pressing cloth in its raised position and with the adjacent edges of the pieces overlapped after which said pressing cloth may be lowered onto the overlapped edges under the weight of a heated iron rested on the top face of said pressing cloth to heat seal the overlapped edges as the heated iron is moved to and fro over the top face of said pressing cloth.

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