STEAM-HEATED IRONING BOARD

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1 Claim. (Cl. 38—103)

1. This invention relates to an improvement in a steam ironing board. It is more particularly drawn to a means for heating the fluid, and forcing the generated steam to pass along the entire board.

A primary object of our invention is to permit articles to be ironed to be simultaneously heated on both sides at once in order to speed up the process and thereby reduce the attendant fatigue.

A further object of our invention is to provide a heating means so positioned, that the steam to be generated will be effected almost instantly.

A still further object of our invention is to provide means whereby a tortuous path will permit the most efficient utilization of the generated steam.

A more specific object of our invention is to provide a series of perforated baffles, in order to effect the desired travel of the steam.

Other objects and advantages will appear in the following specification, and the novel features of the invention will be particularly pointed out in the appended claim.

Our invention is illustrated in the accompanying drawing of which:

Figure 1 is a plan view of the device.

Figure 2 is a side view of the device.

Figure 3 is a longitudinal section taken along the line 3—3 of Figure 1.

Figure 4 is a plan view taken along the line 4—4 of Figure 2.

Figure 5 is a transverse vertical view taken along the line 5—5 of Figure 2, and shows the construction of the heating element and its position on the ironing board in detail.

In carrying out our invention, we provide an ironing board of usual shape 2, containing a metal or other desired top 4, provided with the usual insulation (not shown) and a false bottom 6 to form a hollow chamber 8. It is to be understood that the insulation is applied to the underside and edges of the board to protect the user thereof from burns, while the top padding allows heat to pass through the material being ironed.

As best shown in Figures 2 and 3, a water inlet 10 is provided at the wide end of the board and a condensed steam outlet 12 is provided at the narrow end of the board.

At the wide portion of the ironing board, is provided a heating assembly 14, to be later described. At spaced points intermediate the hollow chamber 8, baffle plates 22, containing a number of perforations 24, are integrally cast with the upper and lower sections of the ironing board. The baffles thus enable the steam produced by the heating elements 14 to retard travel of the steam along the length of the ironing board so that the entire surface is covered. The baffles, in providing a tortuous passage by means of perforations 24, additionally assist in accomplishing this end. The transverse baffles 22 are perforated 24', as shown in Figures 3 and 4, perform a similar function, as will hereinafter be described.

Referring to Figures 3, 4 and 5, the arrangement of the heating means 14 includes a heating element 16 connected to the usual supply cord 18 for connection with a source of electrical current. The entire heating means is encased within a trough 20, of narrower diameter than the wide end of the ironing board 2 and of a length equal to the distance from the first baffle 22 to the outer end of the ironing board.

The heating element 16 is contained within said trough and the flanges 26 of said trough enable it to be bolted to the main sections of the ironing board 2 by means of bolts 28. The usual gasket means of any desired type is supplied at 30. The baffles 22 are constructed transversely of the baffles 22 and extend from the end of the ironing board (as shown in Figure 4) to the first baffle.

In the operation of the device, water to be heated enters an endless path and is retarded by means of baffles 22 and perforations 24 in order to allow the water to slowly enter the reservoir formed by trough 20 and thus be quickly heated by element 14. After the trough is filled, the inlet 10 is closed. The generated steam will travel the length of the ironing board, after being diverted by the baffles 22. The outlet 12 permits the condensed steam to be removed. While steam is generally preferred, it is to be understood that other fluids, such as heated air may be used instead, without invention.

From the foregoing description of one embodiment of this invention, it should be evident to those skilled in the art that various changes and modifications might be made without departing from the spirit and scope of this invention as defined by the appended claim.

Having thus described the invention, what is claimed as new is:

In an ironing board, a false bottom extending the entire length of said board and forming a steam chamber, a trough removable secured to one end of said false bottom, an electric heating element disposed in said trough, fluid inlet
means adjacent said trough, a condensed fluid outlet at the other end of said false bottom, transversely extending perforated baffles in said steam chamber, and longitudinally extending perforated baffles in said steam chamber on both sides of said heating element.

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