COMBINATION PRESSING AND STEAMING IRON

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Fig. 1.

Fig. 2.

Fig. 3.

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This invention relates to combination steaming and pressing irons and more particularly to electric hand pressing irons from which steam is ejected upon the work so as to dampen the same while it is being pressed and such as shown and described in the co-pending application of Frank E. Wolcott, Serial No. 297,579, May 25, 1940, and assigned to the assignee hereto.

The object of this invention is to provide a novel structure for such devices which permits maximum efficiency in sealing the device against leakage of steam and which is very economical to produce.

A further object of the invention is to provide, for a steaming iron having an opening in the top thereof and a closure thereover which is sealed by means of a suitable gasket, means whereby the said closure may be secured in clamping position on said gasket without penetration thereof which would reduce its efficiency.

Further objects of my invention will be more clearly understood from the following description and from the accompanying drawing in which:

Fig. 1 is a view, partly in the central vertical section, of a steaming iron embodying my invention.

Fig. 2 is a plan view of the casing thereof.

Fig. 3 is a rear view of said casing in vertical section on line 3—3 of Fig. 1.

As illustrated in the drawing, the numeral 5 denotes a casing of a steaming iron which is preferably constructed of cast material to provide a water-heating chamber 6 which is heated by means of a heating element 7, to generate steam therein which may be ejected through a sole plate 8 onto the surface being ironed by said iron.

In devices of this character, it is necessary to baffle the water-heating chamber in such a manner that the water will not be permitted to pass out of said chamber with the steam. My invention therefore contemplates the use of a baffle plate 9 which is preferably cast integrally with the casing 5 so as to form a baffle between the water level in the chamber 6 and the opening 10 at the top of said casing.

The said baffle may extend across the casing 5, as clearly illustrated in Fig. 3, with walls 11 closing the ends thereof.

A steam opening 12 is provided in said baffle plate, to permit the passage of steam from the chamber 6 to a steam chamber 13, above said baffle, which communicates with a steam conduit 14, preferably through a control valve 15 that may be selectively operated by a control handle 16, to connect the supply of said steam with steam jets 18—a located in the ironing surface of the sole plate 8.

A steam cover 17 is provided to fit over the opening 10, and a sealing member, in the form of a gasket 18, is disposed between the said cover and the peripheral edge of the opening 10.

In order to eliminate the use of fastening means which would necessarily extend through the said gasket for securing the said cover in position, I provide for threading the clamping screws 19, which extend through the opening 10, directly into the baffle plate 9; thus permitting the cover 17 to be securely tightened over the gasket 18 and the full area of the gasket 18 to be utilized for sealing the steam chamber 13 against leakage and thereby increasing the efficiency of said gasket while also providing economy in construction.

I claim:

For a steam iron of the character described comprising a casing formed of a unitary structure and having a water heating chamber there-in, a partition in said water heating chamber extending substantially horizontally across the same to the sides of said casing, vertical walls extending from the front and rear of said partition to the top of said casing, said partition and walls defining a steam chamber having an opening in the top of said casing, a cover for said opening and means threaded to said partition for securing said cover to said casing; said partition having an opening therein communicating said steam chamber with said water heating chamber.

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