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L. V. LUCIA

2,344,098

COMBINATION PRESSING AND STEAMING IRON

Filed Aug. 16, 1940

Fig. 1

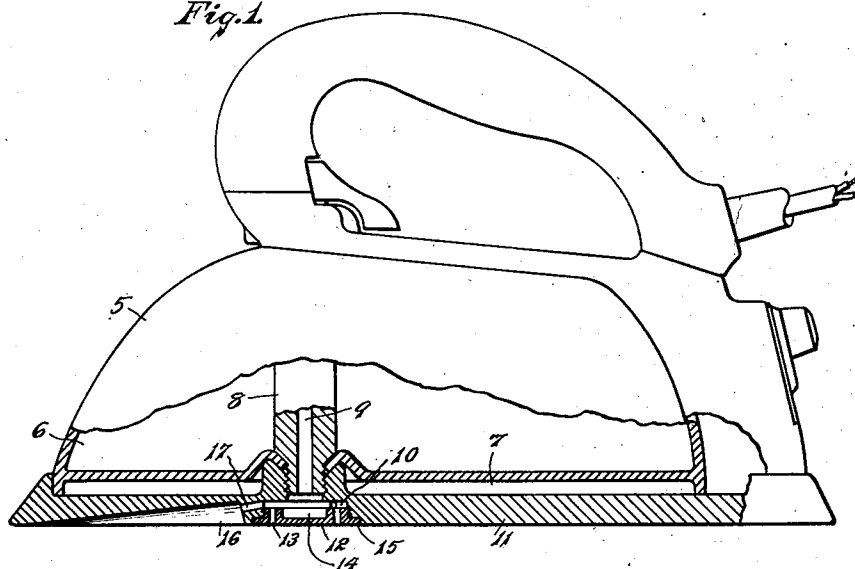


Fig. 2.

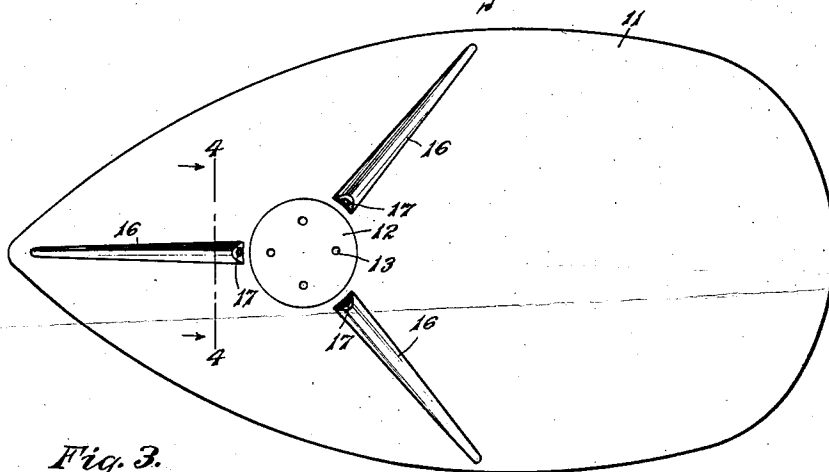


Fig. 3.

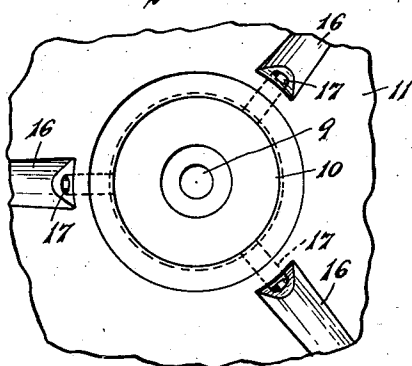
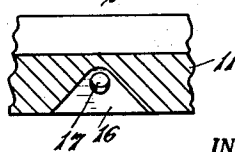


Fig. 4.



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COMBINATION PRESSING AND STEAMING
IRON

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2 Claims. (Cl. 38—77)

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.

In steam irons such as heretofore used, it has been customary to eject the steam from a plurality of localized jet openings. This, however, confines the application of the steam to a small area of the work surface and does not permit it to spread out for a sufficient area, under the surface of the iron, to cover the entire surface of the work.

Other such pressing irons have been constructed with numerous jets spread out on the surface of the iron and connected by means of ducts. In such instances, the ducts and jets are subject to accumulation of sediment therein, from foreign matter in the water used to generate the steam, and often become clogged to a degree which renders the iron inoperable as well as dangerous to use.

An object of this invention therefore, is to provide, for a steaming iron of the character described, novel means whereby the steam ejected therefrom may be applied to cover the surface of the work.

A further object is to provide such an iron having steam ducts in the surface thereof for spreading the application of the steam upon the work surface.

A still further object is to provide an iron having such means and which may be economically produced.

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

Fig. 1 is a view of a steam iron embodying my invention, with parts thereof being shown in central vertical section.

Fig. 2 is a bottom view in elevation.

Fig. 3 is an enlarged bottom view of a portion of the sole plate, the steam distributing chamber cover removed therefrom.

Fig. 4 is a fragmentary view in vertical section in line 4—4 of Fig. 2.

As illustrated in the drawing, my improved steam iron may comprise a casing 5, having a steam chamber 6 therein, to which steam may be supplied, or in which water may be heated to generate steam therein by a heating element, not shown, but which may be contained within a heating chamber 7.

A steam conduit 8 is provided, having a steam passage 9 communicating with a steam distributing chamber 10 that is formed in the sole plate 11 of the iron by a recess which is covered with a cover in the form of a screw plug 12.

The said plug may have steam jet apertures 13 therein, in a surrounding wall which forms a sediment, or condensate retaining recess 14. A surrounding flange 15 is also provided on said plug and fits within a recess in the sole plate to position the screw plug so as to permit proper clearance for the passage of steam over the said surrounding wall and into the jets 13.

The present invention is particularly intended to provide steam distributing means in the form of grooves 16, in the bottom of the sole plate 11, which radiate from the steam distributing chamber 10. The said grooves tapering to a reduced depth, from a point adjacent said steam chamber to a direction away therefrom, in order to provide proper distribution of steam along the full length thereof and communicate with the steam chamber 10 by means of steam ports 17 which lead from the bottoms of said grooves to a portion in the said steam distribution chamber above the top of the screw plug 12.

It will be noted that the screw plug 12 may be easily removed for accessibility in cleaning the steam passages and all surfaces of the steam distributing chamber, and that my invention further provides steam distributing grooves in the sole plate which open upon the surface of the work and are so arranged as to spread out the application of the steam to the surface of the work material without interruptions and thereby permit an even and unbroken application of steam to said work over an area of practically the width of the ironing surface on a pressing iron.

I claim:

1. In a steaming iron of the character described comprising a casing having a steam chamber therein, a sole plate having an ironing surface, the steam distributing chamber in said sole plate communicating with said steam chamber, and a removable cover forming the lower wall of said distributing chamber; the combination of open grooves in said ironing surface and apertures in said cover each communicating with said steam distributing chamber for distributing steam therefrom upon a surface being ironed.

2. A steaming iron of the character described comprising a casing having a steam chamber therein, a sole plate, a steam distributing chamber in said sole plate communicating with said steam chamber, and means comprising a plurality of open grooves in said sole plate communicating with said steam chamber and a detachable plug forming the lower wall of said distributing chamber and having apertures therein for delivering steam to a surface being ironed.

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