Nov. 4, 1930. W. B. KLAREN 1,780,236

SELF STEAMING IRON

Filed March 26, 1929 2 Sheets-Sheet 1

Fig. 1.

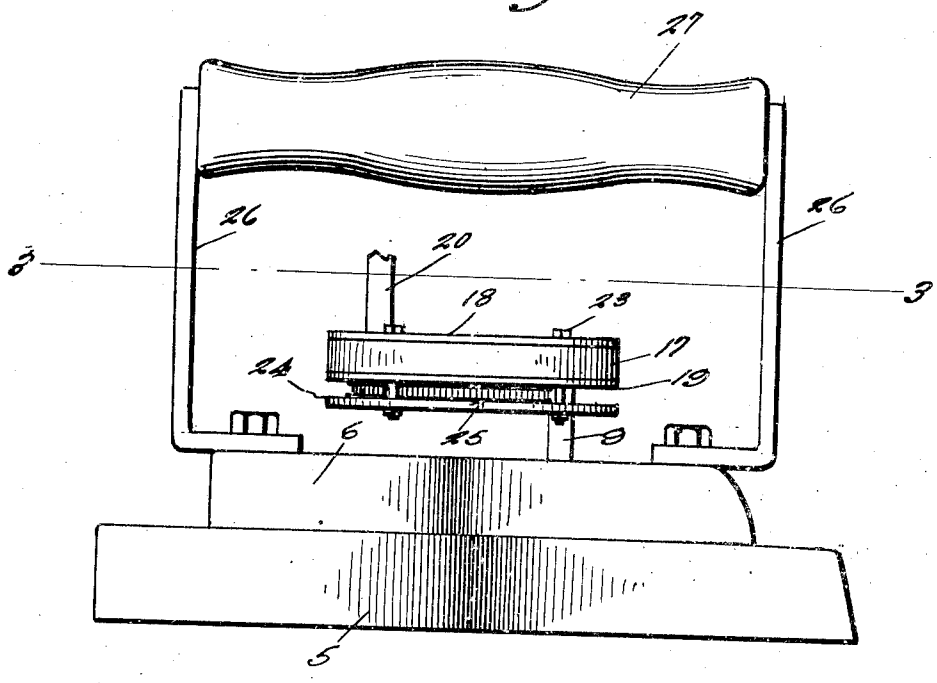
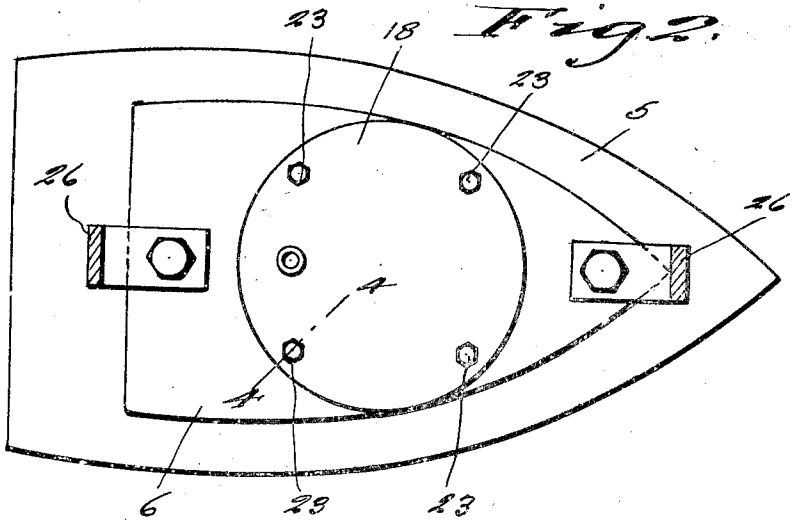


Fig. 2.



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Fig. 3.

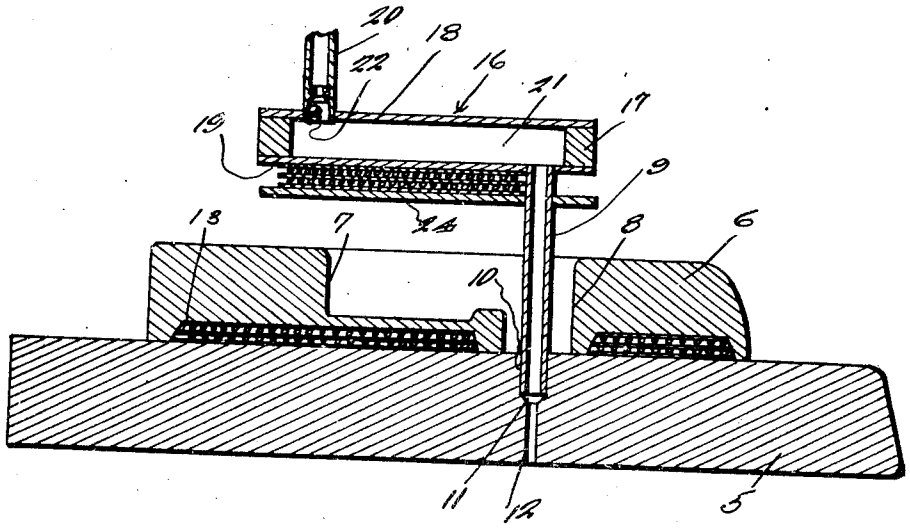


Fig. 5.

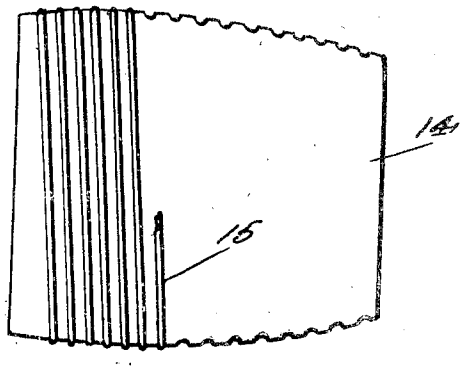
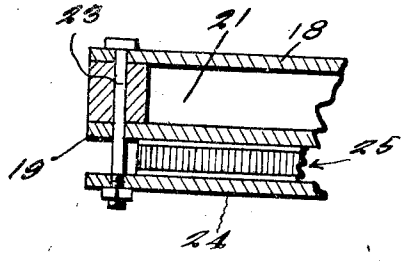


Fig. 4.



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UNITED STATES PATENT OFFICE

WILLIAM B. KLAREN, OF LEXINGTON, KENTUCKY

SELF-STEAMING IRON

Application filed March 26, 1929. Serial No. 350,078.

The present invention appertains to new and useful improvements in sad irons and more particularly to an electrical iron in which steam may be developed for use in moistening the work being ironed.

During the following specification and claim, the reader will become aware of numerous other important objects and advantages.

In the drawings:

Figure 1 represents a side elevation of the improved iron.

Figure 2 represents a horizontal sectional view taken substantially on line 2—2 of Figure 1.

Figure 3 represents a fragmentary longitudinal sectional view through the iron.

Figure 4 represents a fragmentary sectional view taken substantially on line 4—4 of Figure 2.

Figure 5 represents a plan view of the core and a portion of the heating element wound thereon.

Referring to the drawings, wherein like numerals designate like parts, it will be seen that the iron includes the block 5 of some suitable metal, preferably tapering toward the forward end thereof.

Resting upon the block 5 and suitably secured thereto is a plate 6 having the recess 7 formed therein. An opening 8 extends vertically through the plate 6 to accommodate the vertically extending tube 9. This tube 9 has its lower end snugly disposed within a recess 10 in the block 5 which communicates with a horizontally disposed duct 11. A plurality of branch ducts 12 extend downwardly from the horizontal duct 11 and open through the bottom side of the block 5.

The bottom side of the plate 6 is reduced to provide pockets 13 within which the dielectric cores 14 may be placed and around which the heating element 15 may be wound. By energizing this heating element 15, the metallic block 5 may become heated for ironing work in the usual manner. To supply moisture to the work, a small boiler is mounted above the iron proper and denoted generally by numeral 16. This boiler includes in construction, an annular wall 17 interposed between upper and lower disc-shaped plates 18 and 19 respectively.

A water feed pipe 20 communicates with the chamber 21 through the top plate 18 and this feed pipe has a check valve 22 mounted within the end thereof connected to the top plate 18, (see Figure 3). Bolts 23 secure the side walls 17, plates 18, 19 and 24 together in the manner shown in Figure 3. Interposed between the plate 24 and the plate 19 is a suitable core or cores upon which is wound a heating element and this heating unit is generally referred to by numeral 25.

Extending upwardly frome each end of the plate 6 is an L-shaped member 26 whereby the handle 27 is connected to the iron proper. Obviously by delivering water through the tube 20 the same may be heated to the boiling point within the chamber 21 and the steam passing therefrom will discharge through the branch duct 12 onto the work being ironed.

The heating element of the iron proper and the heating element of the boiler 16 may be controlled independently if desired, and it is to be understood that various changes may be made in the construction hereinbefore set forth, without departing from the spirit and scope of the invention as claimed hereinafter.

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

A sad iron comprising a work engageable block, a plate mounted upon the block, said plate being provided with a pocket in the bottom side thereof, a heating element disposed within the pocket and against the top side of the said block, a water boiler mounted upon the iron, said iron being provided with openings therethrough, and means for delivering moisture from the said boiler through the said openings to the work, said boiler comprising an annular side wall, top and bottom walls for the said side walls, a plate, a heating element disposed between the said plate and the said bottom wall, and securing means securing the said top and bottom walls and the said plate to the said side wall.

In testimony whereof, I affix my signature.

WILLIAM B. KLAREN.