Jan. 6, 1953 J. K. MOYER 2,624,832

ILLUMINATED ELECTRIC IRON

Filed July 17, 1947 2 SHEETS—SHEET 1

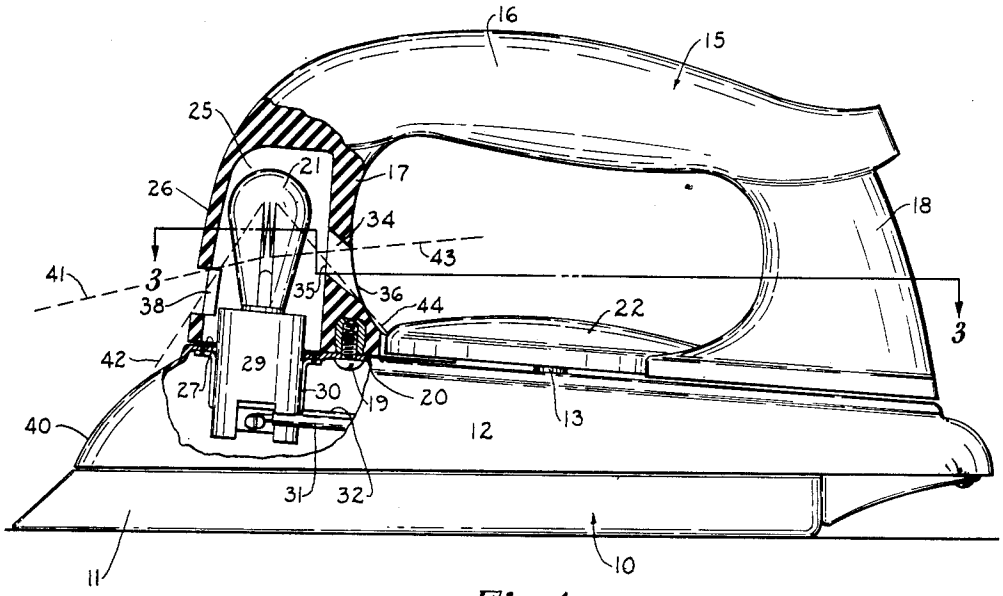

Fig. 1

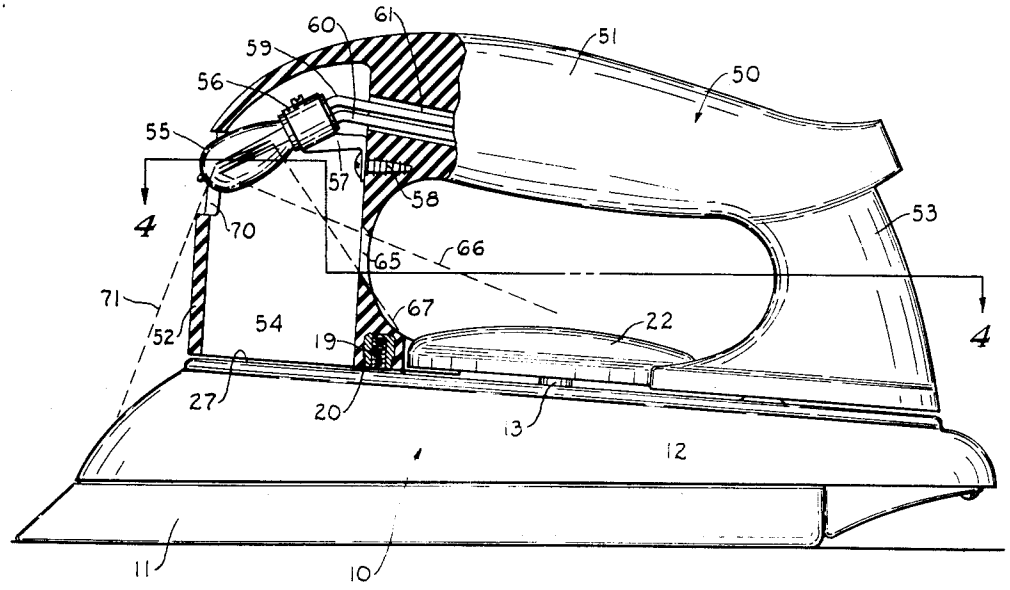

Fig. 2

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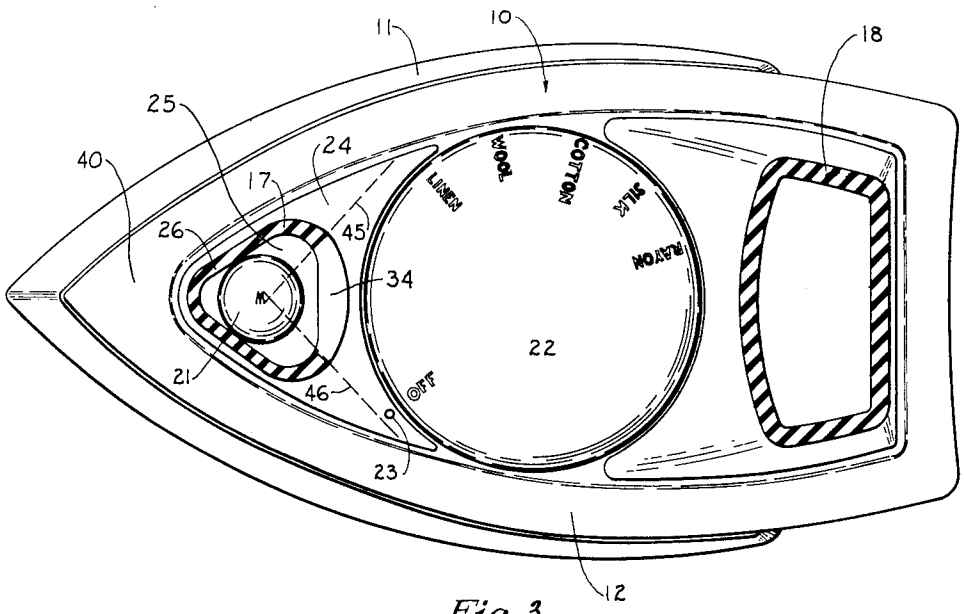

Fig. 3

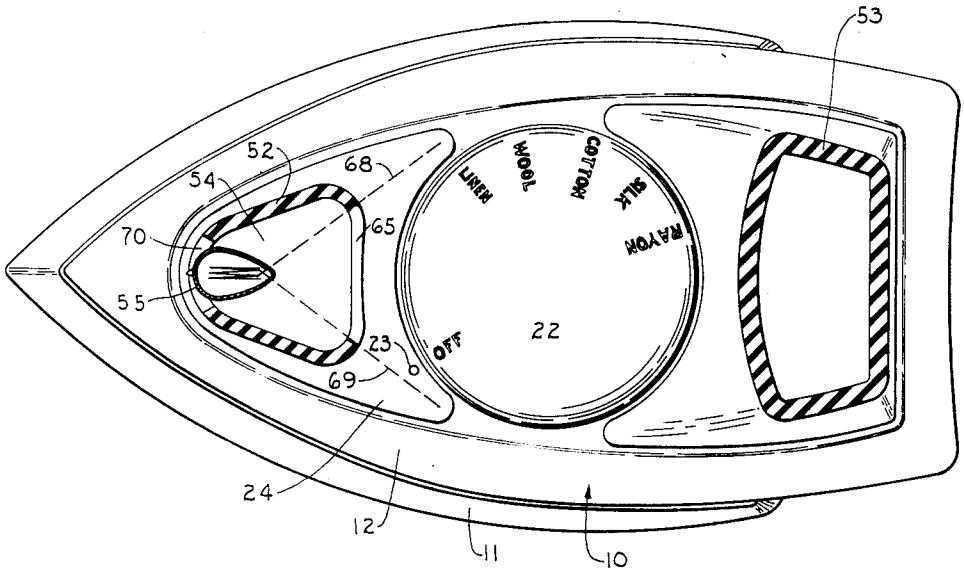

Fig. 4

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ILLUMINATED ELECTRIC IRON

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Application July 17, 1947, Serial No. 761,481

2 Claims. (Cl. 240—2)

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The present invention relates to an electric iron and more particularly to illuminating the material to be ironed and the temperature control means.

An object of the invention is to provide a new and improved electric iron. Another object is to provide light means in an iron to illuminate the material to be ironed. A further object is to provide light means in an iron to illuminate the temperature control means to aid the operator in selecting the desired ironing temperatures. Another object is to provide light means to simultaneously illuminate the material to be ironed and the temperature control means. A further object is to provide a novel arrangement of the lighting means with respect to the iron handle and the temperature control means. Another object is to provide means for cooling the light means. Other objects and advantages of the invention will be apparent from the following specification and drawings, wherein:

Figure 1 is a side view partly in section of one embodiment of the invention;

Figure 2 is a side view partly in section of another embodiment of the invention;

Figure 3 is a section along line 3—3 of Figure 1, and

Figure 4 is a section along line 4—4 of Figure 2.

The embodiment of the invention disclosed in Figures 1 and 3 comprises an iron body 10 including a sole plate 11 and a cover shell 12 within which is an unshown heating element and a thermostat device the latter having a rotatable shaft 13 extending upwardly through the cover shell 12 in a manner well known in the art.

A handle 15 formed of suitable insulation material includes a hand grip portion 16 and supporting legs 17 and 18 which are attached to the cover shell 12 as by screws 19. The handle legs 17 and 18 are spaced from the cover shell 12 by projecting bosses, as indicated for example at 20, to provide for passage of cooling air between the handle and the cover shell.

A temperature control dial 22 is disposed between the handle legs 17 and 18 and is attached to the thermostat shaft 13 for operating the thermostat. Inscribed on the top surface of the dial 22 are the names of the materials to be ironed, and the desired ironing temperature is obtained by rotating the dial 22 into register with the dot 23 on the handle base 24.

The handle front leg 17 is provided with a chamber 25 which is formed by the annular wall 26 of the handle leg 17 and the top wall 27 of the cover shell 12. Disposed in the chamber 25

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is an electric light bulb 21 mounted in a socket 29 which is supported on a bracket 30 attached to the top wall 27 of the cover shell. Attached to the socket 29 is a pair of conductors 31 and 32 which are connected through suitable means to a source of electric current for lighting the bulb 21.

The rear wall portion of the handle leg 17 is cut away to provide a downwardly inclined opening 34 communicating at its upper end 35 with the light chamber 25 and its opposite lower end 36 terminates adjacent to the dot 23 and the dial 22. In the forward wall portion of the handle front leg 17 is an opening 38 which communicates with the light chamber 25 and the exterior of the iron adjacent the cover shell 12.

The light rays from the bulb 21 project through the opening 38 as indicated by dotted lines 41 and 42 in Figure 1 and are directed onto the forward portion 40 and adjacent side surfaces of the iron body and also upon the material to be ironed to illuminate the material and aid the operator in ironing the latter. The beams of light passing through the opening 34 are directed downwardly upon the dot 23 and on the dial, as indicated by the dotted lines 43 and 44 in Figure 1 and 45 and 46 in Figure 3, to aid the operator in rotating the dial 22 to the desired positions for various ironing temperatures.

The embodiment of the invention disclosed in Figures 2 and 4 includes the sole plate 11, cover shell 12, and dial 22 mounted upon the thermostat shaft 13 as described in Figure 1. Mounted on the cover shell 12 is a handle 50 having a hand grip portion 51 and supporting legs 52 and 53, the former being provided with a light chamber 54 in which is a downwardly disposed light bulb 55 supported in a socket 56 which is mounted on the handle 50 by a bracket 57 and a screw 58. A pair of electrical conductors 59 and 60 are attached to the socket 56 and extend through a bore 61 in the hand grip portion 51 for connection to a source of current for lighting the bulb 55.

The rear wall portion of the handle leg 52 is provided with a downwardly inclined opening 65 to permit passage of the light rays from the bulb 55, as indicated by the lines 66 and 67 in Figure 2 and lines 68 and 69 in Figure 4, to illuminate the indicia on the handle leg 52 and dial 22. In the forward wall portion of the handle leg 52 is an opening 70 for passage of the light rays from the bulb 55, as indicated by the line 71 in Figure 2, to illuminate the iron body and the adjacent material to be ironed.

In both embodiments of the invention the arrangement of the openings 34—38 and 65—70 provide for passage of air through the light chambers and about the light bulbs to thereby cool the bulbs 21 and 55.

I claim:

1. In an electric iron, a body having a sole plate, a handle having a hand grip spaced above said body by a downwardly extending supporting leg attached to said body, temperature control means for said sole plate arranged above said body adjacent the base of said supporting leg and beneath said hand grip, means defining a light chamber in said handle supporting leg, light means in said chamber, and means defining an opening in the wall of said chamber in said supporting leg beneath said hand grip adjacent said control means for directing light rays onto said temperature control means to illuminate the latter below said hand grip and eliminate the shadow cast by said hand grip on said temperature control means.

2. An electric iron as described in claim 1, and means in the wall of said chamber defining an opening arranged with respect to said sole plate and light means for directing light rays onto the forward portion of said sole plate and the material to be ironed.

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