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ELECTRICALLY HEATED PUFF IRON

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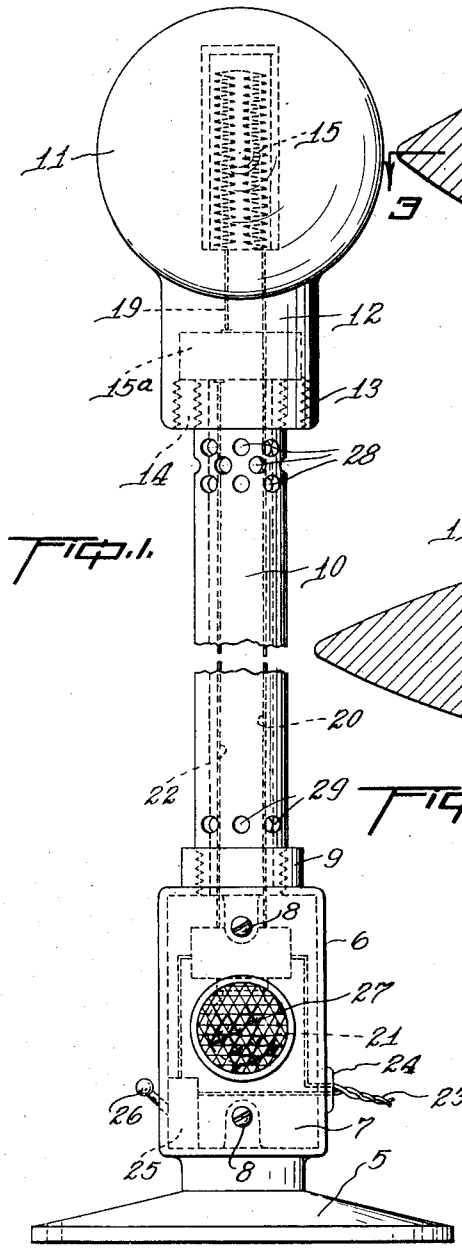


Fig. 1.

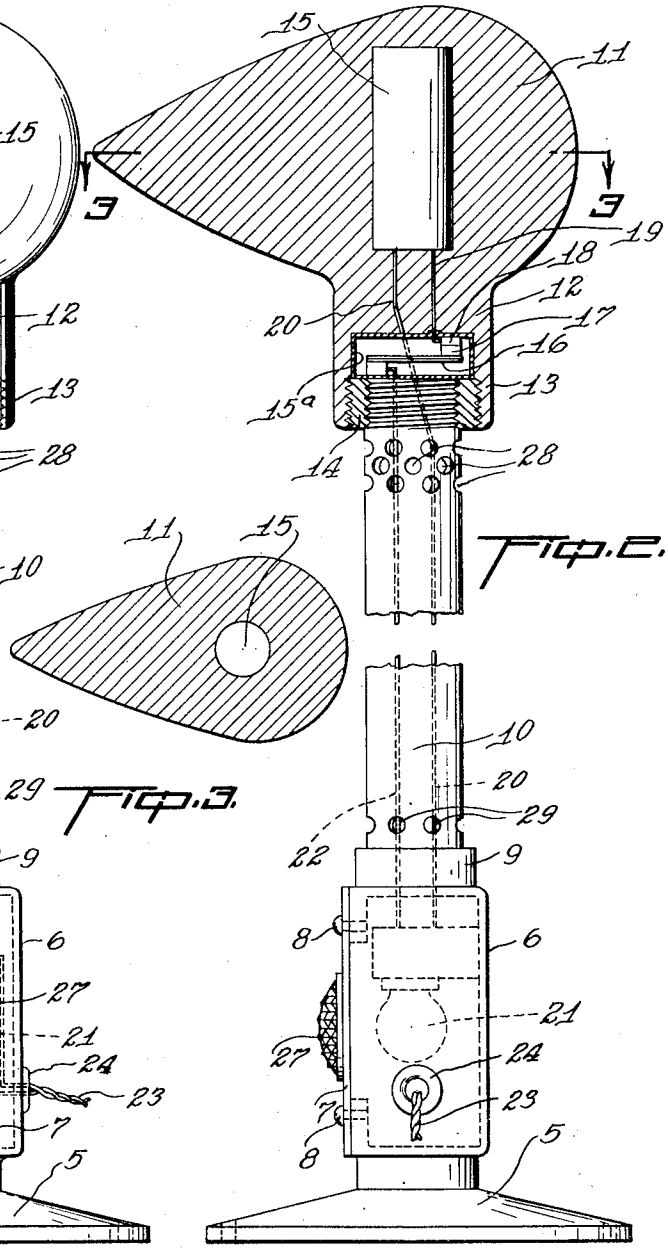


Fig. 2.

Fig. 3.

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ELECTRICALLY HEATED PUFF IRON

Samuel Caplan, Detroit, Mich.

Application November 4, 1931. Serial No. 572,983

1 Claim. (Cl. 219—21)

My invention relates to electrically heated puff irons and an object of the same is to provide a puff iron wherein a heating element is embedded entirely within a solid ironing head so that the same will be efficiently and uniformly heated throughout its entire area.

A further object of the invention is to provide a portable electrically heated puff iron having a visual signal so that the operator may readily tell whether or not the heating element is energized.

Another object of the invention is to provide a portable iron of this character wherein the handle carrying portion is utilized to support and encloses visual signal wiring for the heating elements and the switch for controlling the circuit to the signal and heating element.

With the preceding and other objects and advantages in mind the invention consists in the novel combination of elements, constructions and arrangement of parts, wherein

Figure 1 is a side elevation of a puff iron constructed in accordance with my invention;

Fig. 2 is a similar view taken at right angles to Fig. 1 and showing the ironing head in vertical section, and

Fig. 3 is a horizontal section taken on line 3—3 of Fig. 2.

Referring to the invention in detail a portable base plate 5 is provided and supported thereon is a substantially rectangular housing 6 having a removable cover plate 7 held in place by removable fastenings 8. The upper end of the casing 6 is formed with an internally threaded collar 9 in which the lower end of a handle or standard 10 is threaded.

A substantially egg shaped ironing head 11 is arranged to be supported from the upper end of the handle portion 10 or column and for this purpose the underface of the head is formed with a circular enlargement 12 having an internally threaded sleeve 13. A bushing 14 is threaded into the sleeve 13 and in threaded engagement with the upper end of the handle portion or column 10. In order to heat the head 10 a conventional heating element 15 is cast directly in the head.

An automatic circuit breaker is provided which consists of a circular casing 15a formed of non-conducting material and which is held within the lower end of the circular portion 10 between the inner face of the bushing 14. A thermally controlled switch arm 16 is supported within the circular casing 15a and carries a contact 17 at one end which normally engages a fixed contact 18 supported from the upper wall of the circular casing and connected with the heating element by a conductor 19. A second conductor 20 leads from the heating element and extends through the handle portion 10 and into the housing 6 where it is connected with one of the terminals of a signal lamp 21. A conductor 22 extends from the other terminal of the signal lamp upwardly through the handle portion 10 and connects the fixed end of the switch element 12. Electrical energy from any desirable source is conducted to the lamp and heating element 15 through the medium of lead wires 23 extending through an opening 24 in the housing 6 and connect with the lamp base as shown. A conventional switch 25 is arranged in the housing 6 and is connected with one of the lead wires 23. The switch arm 26 of the switch extends from one of the side walls of the casing 6 as shown.

In order that the operator may tell whether or not the illuminating bulb 21 is illuminated so that he may definitely know whether or not the heating element 15 is energized, a bull's-eye 27 is supported by the wall 7 in advance of the bulb 21 and is adapted to be illuminated thereby.

In order to prevent the handle portion 10 from overheating the upper end of the latter is formed with a plurality of perforations 28 through which heat from the head 10 passes to the atmosphere. A second series of openings 29 is provided in the handle portion 10 at its lower end which cooperate with the openings 28 in causing air to circulate through the handle portion to ventilate the latter and hence reduce its temperature.

What I claim is:

In an ironing device, a handle portion having a threaded upper end, a head having a sleeve receiving said end, a heating element mounted in said head, an insulating casing mounted in said sleeve upon said end, a thermostatic switch in said casing and electrically connected to said heating element, and a bushing threaded on said end and into said sleeve to join the same together and bearing against said casing.

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