Feb. 29, 1944. W. W. McCREADY 2,342,744

ELECTRICALLY HEATED GARMENT AND PORTABLE BATTERY THEREFOR

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Fig. 1.

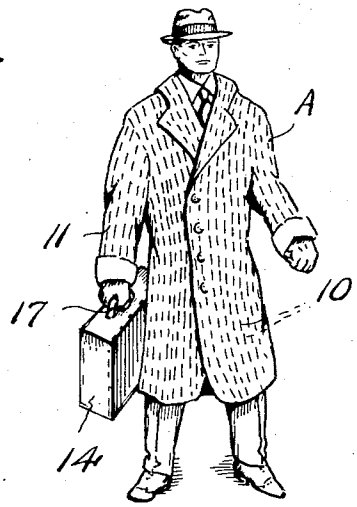
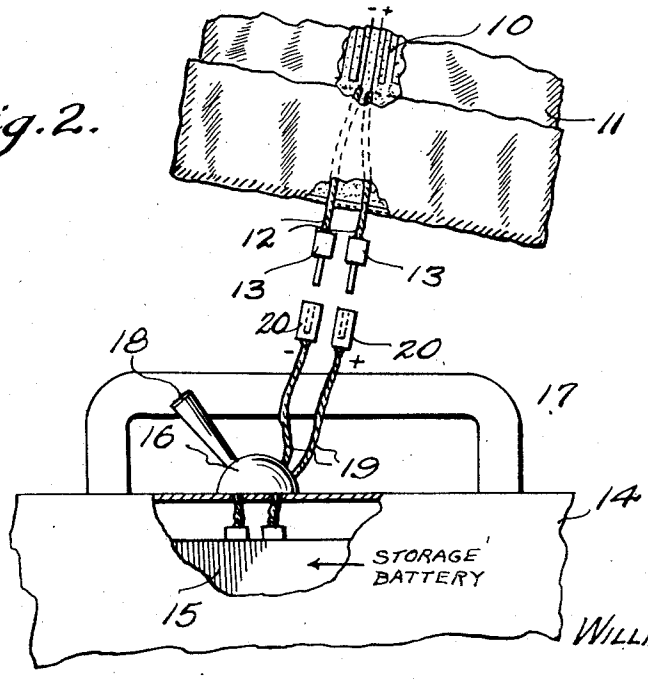


Fig. 2.



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ELECTRICALLY HEATED GARMENT AND PORTABLE BATTERY THEREFOR

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2 Claims. (Cl. 219—46)

This invention relates to an electrically heated garment and portable battery therefor, and has for one of its objects the production of a simple and efficient means for connecting the battery to the garment in such a way as to facilitate the release of the battery from the sleeve of the garment merely by dropping the battery-carrying case from the hand of the operator.

Another object of this invention is the production of a simple and efficient electrically heated garment wherein the source of electrical supply in the nature of a storage battery is carried in a hand-carrying case having a switch adjacent the handle thereof and wherein detachable leads extend from the switch to the garment to facilitate quick and convenient attachment and detachment.

Other objects and advantages of the present invention will appear throughout the following specification and claims.

In the drawing:

Figure 1 is a perspective view showing the battery-carrying case in an operative position relative to a garment;

Figure 2 is an enlarged fragmentary side elevational view illustrating a portion of the sleeve of a garment, and a portion of the carrying case with a battery in position and also illustrating the battery leads detached from the garment leads.

By referring to the drawing, it will be seen that A designates an electrically heated garment, wherein the heating element 10 may be of any conventional type. The garment A is provided with a sleeve 11 from which sleeve 11 depends two flexible leads 12 which are connected to the heating element 10. A plug 13 is carried by each lead 12, as shown in Figure 2, and these flexible leads 12 and plugs 13 depend from the sleeve 11.

A battery-carrying case 14 is provided, which carries a storage or other battery 15 which is connected to a switch 16 mounted upon the top of the case 14. A case-carrying handle 17 is mounted upon the top of the case 14 adjacent the switch 16 and the switch lever 18 is mounted upon the switch 16 in a position near the forward end of the handle 17 where the lever 18 may be easily reached by the thumb of the operator when the operator grips the handle 17 with his hand. The switch 16 may be easily turned on or off at the will of the operator to regulate the amount of heat in the garment A. Flexible leads 19 extend from the switch 16 and are provided with sockets 20 for receiving the plugs 13 to connect the source of electrical supply to the garment A. The plugs 13 depend from the sleeve 11 and the sockets 20 extend upwardly to receive the plugs 13 and the plugs 13 will retain contact with the sockets 20 while the handle 17 and case 14 are supported by the wearer of the garment A. If it is desired, when the grip of the wearer of the garment A is released the weight of the case 14 will automatically pull the sockets 20 away from the plugs 13 thereby automatically breaking contact and releasing the case and battery from the garment without the necessity of the wearer individually separating the plugs and sockets. The battery 15 and case 14 may in this way be easily and quickly separated from the garment A, when desired, for instance when the wearer enters a building and desires to remove the coat or garment A, and to be assured that the current from the battery 15 is disconnected from the garment. At other times the current may be cut off by operating the lever 18 of the switch 16.

I am aware that it is old to provide a thermal garment with contacts whereby electric current is passed through wires, but I do not claim broadly such a construction. My purpose is to facilitate the attachment of a battery within a hand-carrying case which battery is connected to the garment at the lower end of the sleeve thereof by pulling apart plugs, as described above and illustrated in the drawing.

What is claimed as new is:

1. In combination with a thermal garment having heating wires therein, a sleeve comprising a part of said garment, of flexible leads depending from the sleeve of said garment, a battery-carrying case having a handle on the top thereof adapted to be gripped by the hand of a wearer of the garment, a switch located near one end of said handle, a battery in said case, means connecting the battery to said switch, and pull-apart plugs connecting the switch with said leads for automatically disconnecting said battery from said thermal garment when the wearer of the garment releases his grip from the handle and drops the case.

2. The combination of a thermal garment having heating wires therein, a portable electrical supply means detachably connected with the heating wires within the thermal garment, means for facilitating the holding of the portable electrical supply element in electrical contact with the heating wires of the garment, and the portable electrical supply element being adapted to automatically disconnect from the heating wires within the garment when said last mentioned means is released.

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