Feb. 7, 1933. W. O. COLLINS 1,896,663

ELECTRICALLY HEATED TOY

Filed May 1, 1931

Fig. 1.

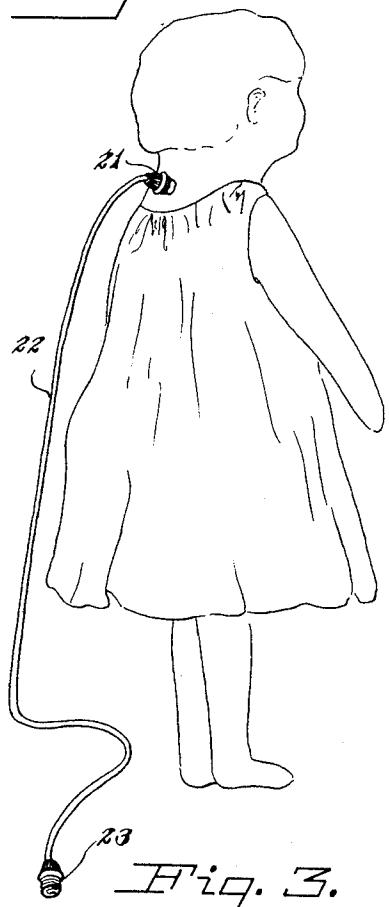


Fig. 2.

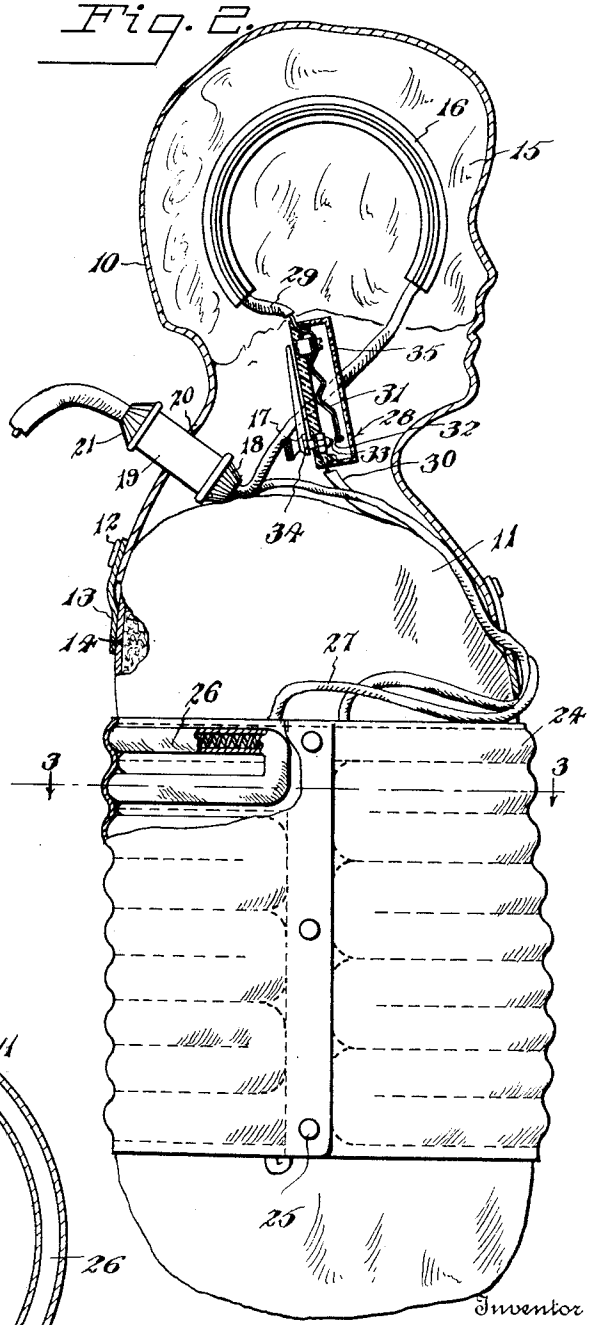
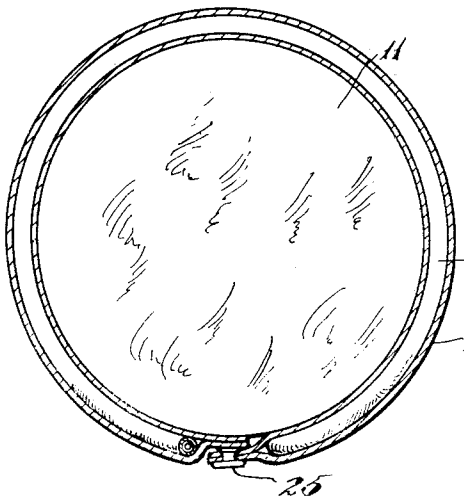


Fig. 3.



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UNITED STATES PATENT OFFICE

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ELECTRICALLY HEATED TOY

Application filed May 1, 1931. Serial No. 534,363.

This invention relates to electrically heated toys and has for an object to provide generally a toy which will replace the usual electric heating pad.

A further object of the invention is to provide a toy, such as a doll, teddy bear, or other stuffed toy, which will be warmed by electric resistance wire so that the toy can be used in the ordinary manner during the day and, when taken to bed at night, will provide a warm companion which children and infants will enjoy cuddling.

A further object of the invention is to provide a toy embodying an electric heating pad controlled by a thermal switch which will prevent overheating of the pad.

A still further object is to provide a toy in which the heating element may be readily replaced when burned out.

With the above and other objects in view the invention consists in certain novel details of construction and combinations of parts hereinafter fully described and claimed, it being understood that various modifications may be resorted to within the scope of the appended claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the accompanying drawing forming part of this specification,

Figure 1 is a perspective view of a doll constructed in accordance with my invention,

Fig. 2 is an enlarged longitudinal sectional view through the head and torso of the doll, with parts of the torso in elevation, and showing the heating pads applied thereto, and

Fig. 3 is a cross sectional view taken on the line 3—3 of Fig. 2.

Referring now to the drawing in which like characters of reference designate similar parts in the various views, a doll is shown for the purpose of illustration, comprising a hollow head 10 which, in the present embodiment of the invention, is secured to the torso 11 by snap fasteners 12 carried by an annular strip 13 of material, which may be sewed, as shown at 14, or otherwise secured to the torso. Thus, the head is readily removable by unsnapping the snap fasteners.

A heating pad 15, of any preferred material and containing the usual electric resistance element 16, is inserted in the head so as to provide a stuffing therefor, one terminal of the heating element being connected by a conductor wire 17 to a plug 18 which is receivable in a socket 19 that is secured in an opening 20 in the back of the head. The outer end of the socket is equipped with a removable plug 21 having the usual extension cord 22 terminating in a plug 23 which may be engaged in a lamp socket or other electric receptacle, as will be understood.

In further carrying out the invention, I preferably provide a heating pad 24 which, in some instances, may be wrapped around the torso 11 and the terminals of which may be secured together by snap fasteners 25 to permit ready removal and replacement when necessary. The heating pad is of the usual construction, containing insulated electrical resistance wires 26 looped back and forth throughout the length of the pad, as indicated in Fig. 2.

One terminal of the heating pad 24 is connected by a conductor wire 27 to the above-mentioned plug 20.

A thermal switch 28, as best shown in Fig. 2, is connected to the remaining terminals of the head heating pad 15 and the torso heating pad 24 by conductor wires 29 and 30, respectively. The switch is of the usual type, in which a bimetallic sensitive member 31 is employed as a terminal, the same being equipped with a contact 32 which engages a fixed contact 33 carried by the adjustable terminal 34 of the switch, the parts being housed in the usual insulating casing 35. When the sensitive member is heated beyond a predetermined temperature by the heat of the pads in the doll, the member becomes elongated and moves the contact 32 from engagement with the contact 33, thus breaking the circuit at this point.

From the above description, it will be seen that, by simply removing the head from the torso, the heating pad 15 in the head may be removed for replacement when burned out.

Should it be necessary to replace the torso heating pad 24, it is simply necessary to detach the head and remove the terminals 27 and 30 from the plug 18 and the switch 28, whereupon the snap fasteners 25 may be unsnapped and the heating pad removed and replaced with a new heating pad.

It will be observed that by simply detaching the plug 21 from the socket 19 the toy may be used in the ordinary manner during the day. By simply replacing the plug in the socket and attaching the extension cord to a floor receptacle or other receptacle, the toy will be warmed by the effects of the head heating pad 15 and torso heating pad 24 to provide a warm bed companion for the infant.

It is not intended to limit the construction of the device to removable heating pads, since, obviously, non-removable heating pads may be built into the body structure of the toy without sacrificing any of the advantages above described. Furthermore, it may even be desirable to dispense with the heating pad and employ a heating element of any desired type built into the body structure of the toy or removably assembled therewith, and it is intended that the scope of the invention shall extend to such constructions.

Having thus described the invention, I claim:

1. A toy including a removable hollow head, a body, a removable electric heating pad disposed in the head, a removable heating pad wrapped around the body, and a thermal switch in the head automatically controlling the heat of both pads.

2. A toy doll including a hollow head, a body, means for removably securing the head to the body, an electric heating pad removably disposed in the head, an electric heating pad wrapped around the body and having the terminals connected by snap fasteners to permit removal of the pad, a thermal switch in the head automatically controlling the heat of both pads, and an extension cord operatively connected with the pads.

3. A toy doll including a hollow rigid head, a stuffed body, snap fasteners carried by the body and head removably securing the head to the body, an electric heating pad forming a stuffing for the head, an electric heating pad carried by the body and wrapped around the exterior thereof, circuit wires connecting both pads, a thermal switch concealed within the head for automatically controlling the current passing through the wires, a receptacle carried by the head, a plug for said circuit wires engaged in the inner end of the receptacle within the head, and an extension lamp cord terminating in a plug engaged in the outer end of said socket externally of the head.

In testimony whereof I affix my signature.

WILLIAM O. COLLINS. [L. S.]