

[54] HAND COVERING WITH HEATING MEANS THEREIN

[76] Inventor: Edgar E. Shively, 2843 Gawain Ave., Indianapolis, Ind. 46208

[22] Filed: Jan. 7, 1974

[21] Appl. No.: 431,497

2,178,397	10/1939	Larkey.....	219/528 X
2,294,010	8/1942	Van Daam.....	219/313
2,467,447	4/1949	Strezoff.....	219/527 X
2,548,076	4/1951	Strezoff.....	219/527 X
2,792,827	5/1957	Gravin et al.....	126/204
3,195,539	7/1965	Hyman.....	128/380 X

[52] U.S. Cl..... 219/211, 128/381, 165/46, 219/527, 219/535

[51] Int. Cl..... H05b 1/00, F24h 1/00

[58] Field of Search..... 219/211, 212, 527-529, 219/535, 523, 316, 318, 326, 313; 128/379, 380, 381, 402; 126/204; 165/46; 2/158, 159

Primary Examiner—C. L. Albritton
Attorney, Agent, or Firm—Elmer L. Zwickel

[56] References Cited

UNITED STATES PATENTS

1,199,914 10/1916 Mossor 165/46 X

[57] ABSTRACT

A hand covering having a fluid container integral therewith and containing means to heat fluid therein.

4 Claims, 4 Drawing Figures

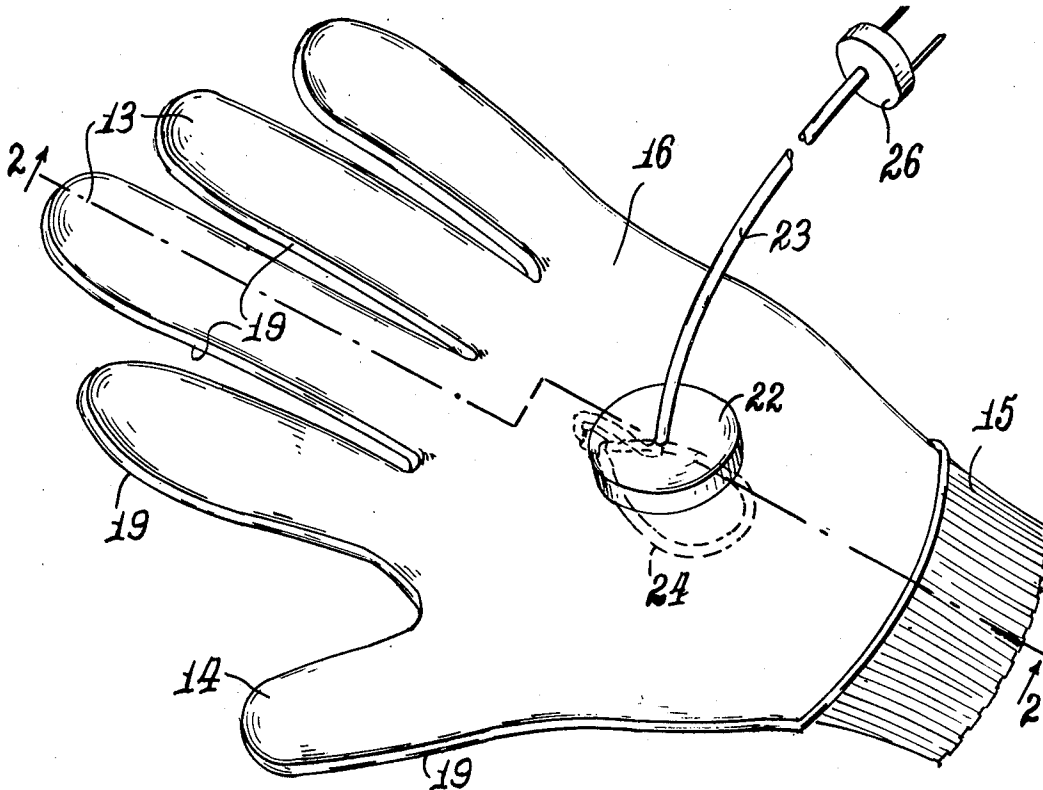


FIG. 1.

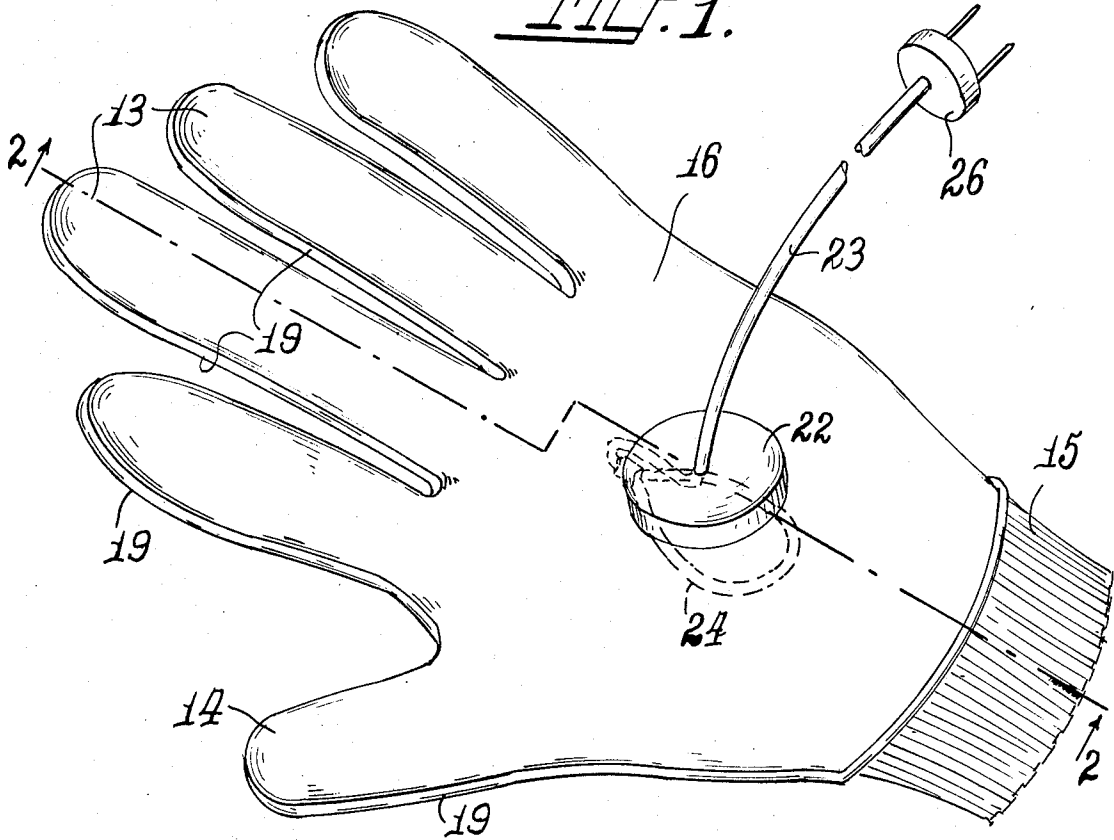


FIG. 2.

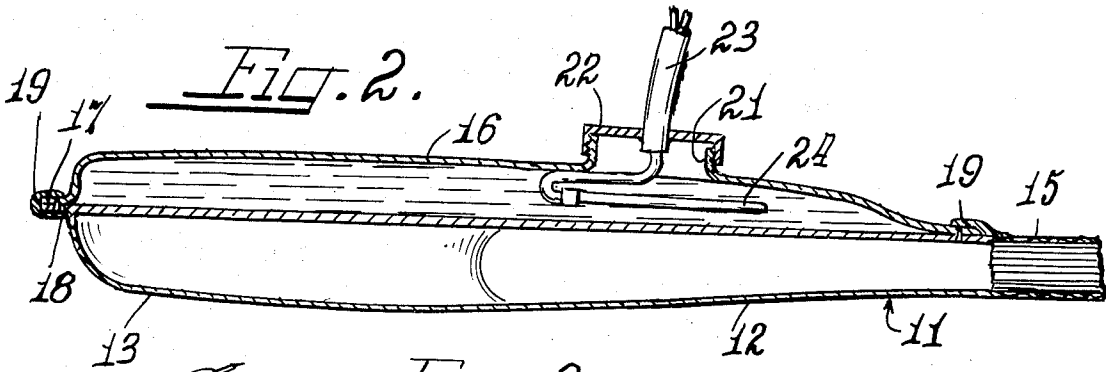


FIG. 3.

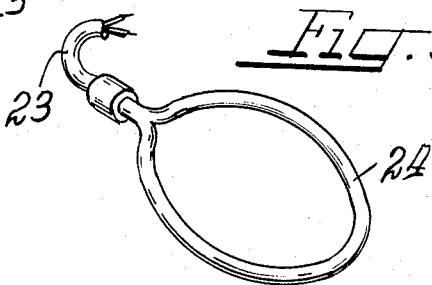
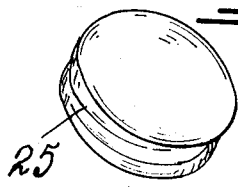


FIG. 4.



HAND COVERING WITH HEATING MEANS THEREIN

The invention relates to improvements in a hand covering, such as a glove or mitten, having integrally associated with it novel means to heat same for keeping the hands of a wearer warm.

More particularly, the covering comprises a conventional glove portion 11 shaped to fit the hand and including a body portion 12 and finger and thumb portions 13 and 14 respectively, and a knit wrist portion 15. The hand covering preferably is made of water impervious material such as leather or plastic so as to resist entrance of cold air and the escape of fluid or of heat generated in a manner to be described in detail hereinafter. Such a hand covering is especially useful by persons exposed to cold weather and persons having arthritis or other problems with the hands which are minimized by the application of heat.

It is therefore an object of the invention to provide a hand covering of the character referred to.

Another object is to provide a hand covering of the character referred to with a fluid chamber and means to heat fluid therein.

Another object is to provide a hand covering of the character referred to with a novel closure for the fluid container carrying the heating means.

Another object is to provide a hand covering which is not difficult or expensive to manufacture, is inexpensive to use and is very efficient in use.

Other objects and advantages of the invention will become apparent with reference to the following description and accompanying drawing.

In the drawing:

Fig. 1 is a plan view of a hand covering embodying the invention.

FIG. 2 is a sectional view taken substantially on line 2-2 of FIG. 1.

FIG. 3 is a perspective view of a calrod heater that is incorporated in the hand covering.

FIG. 4 is a perspective view of a closure cap for the fluid filling port.

Referring to the exemplary embodiment of the invention shown in the accompanying drawings, the body portion 11 of the hand covering is conventional and may be made of leather, plastic or any other weather resistant material. It includes a palm portion 12, finger portions 13 and a thumb portion 14 and preferably a knit wrist portion 15.

Integrally secured to the back side of the glove is a fluid container 16 in the form of a leak proof bag shaped to conform to the configuration of the hand covering including the finger and thumb portions. Although the container 16 may be integrally secured to the glove, as by an adhesive, it preferably is provided with a marginal flap 17 that matches a similar flap 18 on the glove. These flaps 17-18 may be stitched together to provide a mechanical bond and said joined flaps are then encased in a coating 19 of rubber or like material.

The fluid container 16 is provided, preferably in the

area of the back of the hand, with a relatively large externally flanged opening 21 suitably externally threaded to receive a cap-like fitting 22 thereon tightly. The fitting 22 has extending through its top wall an insulated electric cord 23, the wires of which are connected to a calrod heater 24 that is contained in the fluid container. This calrod preferably is flexible so as to conform to the contour of the back of the hand. When the glove is in use the cap-like fitting 22 may be removed, along with the calrod, and the flanged opening 21 may be closed by a conventional type of cap 25.

In use, the fluid container 16 is filled, through opening 21, with a mixture of water and an anti-freeze. The cap-like fitting 22 is replaced and the cord 23 is then connected to an electrical outlet, a pronged plug 26 being provided for this purpose. As the calrod heats, the fluid is heated and when a predesired temperature is reached the cord is unplugged and the hand covering is fitted onto the hand. The supply of fluid is sufficient to keep the covering warm for several hours, depending of course on outside temperature, after which it may be plugged into a current supply for reheating.

It has been found that when a vehicle is equipped with a converter, the glove may be plugged into the circuit of the vehicle for heating.

Of course, it desired, the cap-like fitting 22, may be removed after heating the fluid and the conventional cap 25 placed on the flanged filling opening 21, to prevent fluid lose.

Although I have described a preferred embodiment of my invention, in considerable detail, it will be understood that the description thereof is intended to be illustrative, rather than restrictive, as details of the structure may be modified or changed without departing from the spirit or scope of the invention. Accordingly, I do not desire to be restricted to the exact construction shown and described.

I claim:

1. A heated covering for the hand comprising a hand glove casing including a main body, thumb and finger portions, a water filled heating chamber integrally connected to said glove casing, a filling opening in said heating chamber, a cap on said filling opening, an electrical heater element within said heating chamber, and an insulated electric cord for connecting said heater element with a source of electric current, said cord extending through said cap and affording a mounting for the heater element whereby the latter may be withdrawn through the filling opening upon removal of the cap.

2. The heated covering for the hand recited in claim 1, in which the heating element comprises a calrod.

3. The heated covering for the hand recited in claim 1, in which the hand glove and chamber have matching marginal flaps suitably joined together.

4. The heated covering for the hand recited in claim 3, in which the joined flaps are encased in a waterproof covering.

* * * * *