A heat pad for the lower abdomen and back portions of the human body is made up with front and rear heating pad sections, each of a durable pliant inner layer of electrical insulation, such as a synthetic rubber, capable of withstanding heat of the order of that commonly employed in heat pads, and a cover layer of a durable fabric such as nylon cloth having some resiliency. Each section has a top waistband portion of elastic webbing and a bottom leg band portion of the same material separate from the corresponding webbing of the other section. The inner layer of each section has a heating element secured therein and extended throughout the inner layer except for crotch portions along the lower part of the section. The two sections are permanently secured to each other for a short distance along one of their side edges and have cooperating snap fasteners along their side edges ad along their bottom edges. Double sets of fasteners are provided at the bottom edges for adjustment. The heater elements have current supply cords individual to each element and embodying individual switches. A heat control device governs the current supply to both cords which are connected in parallel to each other across the main current supply cord.
DUO HEATING PAD

BACKGROUND OF THE INVENTION

A great variety of heating pad shapes have been used for adaptation to the various parts of the human body. Among these devices are the heating jacket of the Stein U.S. Pat. No. 2,584,302, the wraparound pad of the Chaitin U.S. Pat. No. 2,494,987, the electrically heated, multipeice garment of the Birkenfeld U.S. Pat. No. 1,358,509 and the two-piece heat pad of the Schwobel U.S. Pat. No. 2,842,655. Other patented heat pads uncovered in a search of the Patent Office records were not as similar to the present invention as those just mentioned.

PURPOSE OF THE INVENTION

It is the purpose of the present invention to provide a heat pad composed of front and back heating pad sections, each having its own electrical heating element connected to a common supply cord for electric current through an individual switch, each section including elastic waist band and leg band portions, the sections being secured together adjacent to the supply cords so as to be handled as a single garment and having separable fasteners along their free edges for securing them snugly about the lower part of the human body whereby to supply heat under individual control to both the front and back lower portions of the human trunk.

GENERAL DESCRIPTION

A preferred form of the invention is disclosed in the accompanying drawings wherein:

FIG. 1 is a front view of a heating pad embodying my invention with the front and back sections thereof secured together along the sides and bottom to provide a pants-shaped garment;

FIG. 2 is a front view of the heating pad with the front and back sections separated along one side and at the bottom;

FIG. 3 is an inside view showing the front and back sections of the heating pad spread out and showing the arrangement of the heating elements and their control switches and heat control unit; and

FIG. 4 is a detailed sectional view on the line 4—4 of FIG. 1.

Referring now to the drawings my invention is embodied in a heat pad 1 which has a front heating pad section 2 in which a heating element 3 is secured within an inner layer 4 of electrical insulation that is quite pliant. The section 2 has an inner covering 5 and an outer covering 6 of a durable resilient fabric which can be washed. This front section 2 is edged with an elastic webbing 7 along the top thereof. Similar elastic webbing pieces 8 and 9 are provided along the bottom edges of the section that are cut out to fit about the human leg at the groin.

A rear heating pad section 12 is made up essentially like the front section 2 with its own heating element 13 within an inner layer 14 of electrical insulation. This section 12 has inner covering 15 and outer covering 16 of the same material as the coverings 5 and 6. Elastic webbing pieces 17, 18 and 19 finish the top and bottom edges of the section 12.

As shown in the drawings, particularly FIG. 4, the resilient fabric of the front and rear pad sections has convex side edges that extend downwardly and outwardly from the ends of the top edges of the sections. These convex edges meet the concave bottom edge portions that are provided with the elastic webbing pieces 8, 9, 18 and 19. The middle bottom portions 2a and 12a carry the fasteners 27 and 38. The edges of these bottom portions complete the lower edge outlines of the respective heating pad sections.

The heating elements 3 and 13 have electric current supply cords 20 and 21 supplying them with the electric current to develop the desired heat in the sections. A switch 22 controls the passage of current through the element 3. A switch 23 controls the passage of current through the element 13. The control unit and indicator unit 24 of the kind commonly used in heating pads controls the amount of current supplied to the heating elements 3 and 13 which are connected in parallel across the current supply at the unit 24.

The two sections 2 and 12 are shown as permanently joined at 25 so that they are handled as one garment. This permanent connection reduces the possibility of depending upon the cords 20 and 21 to keep the sections together and the resultant danger of destroying an electrical connection to one or both sections. For fastening the sections together around the lower part of the human trunk, snap fasteners 26 are provided along the free sides of the sections 2 and 12. Snap fasteners 27 are used to connect the crotch portions 2a and 12a of the sections. Extra fasteners 28 are also provided here to provide adjustment of the garment.

Having described my invention, I claim:

1. A heating pad comprising:
   a front heating pad section having top and bottom edges and side edges and comprising a heating element, a layer of pliant electrical insulation within which the heating element is located, an inner covering and an outer covering both of resilient fabric between which the layer is secured;
   the side edges of said section being convex and extending downwardly from the ends of the top edge;
   the bottom edge of said section comprising two concave edge portions extending toward each other from the lower ends of the side edges, and a narrow middle bottom edge portion joining the concave edge portions whereby said pad section is adapted to overlie the lower front portion of the human abdomen said pad section having fasteners thereon adjacent to its side edges and other fasteners thereon adjacent to its middle bottom edge portion;
   a rear heating pad section having top and bottom edges and side edges and comprising a heating element, a layer of pliant electrical insulation within which the heating element is located, an inner covering and an outer covering both of resilient fabric between which the layer is secured;
   the side edges of said rear section being convex and extending downwardly from the ends of the top edge of said rear heating pad section;
   the bottom edge of said rear heating pad section comprising two concave edge portions extending toward each other from the lower ends of said last named side edges, and, a narrow middle bottom
edge portion joining the last named concave edge portions whereby said rear heating pad section is adapted to overlie the lower back portion of the human body;
the fabric of one side edge of the rear heating pad section being affixed to the fabric of the front heating pad section side edge;
said rear heating pad section having fasteners along its side edges and adjacent to its middle bottom edge portion adapted to engage with the fasteners of the front pad section whereby to secure the heating pad sections to each other at their middle bottom edge sections and around the human body;
an electrical current supply cord leading from each heating element for connection to a source of electric current; and
a control switch in each cord.

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