

March 10, 1925.

1,529,464

J. L. COX

MEDICAL BELT OR BANDAGE

Filed July 1, 1922

Fig. 1.

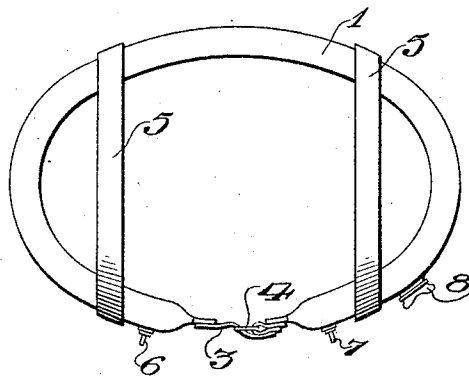


Fig. 2.

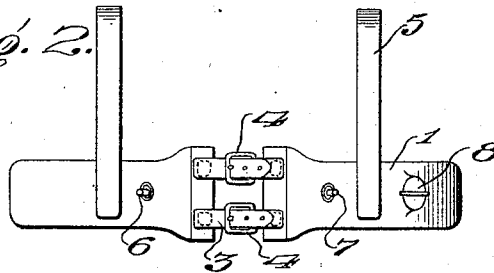
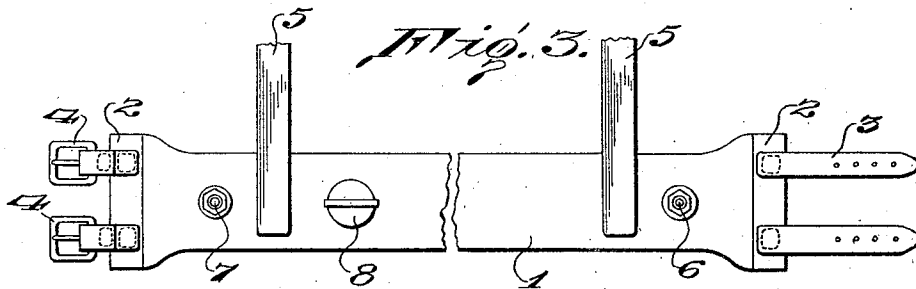


Fig. 3.



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His Atty.

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UNITED STATES PATENT OFFICE.

JOHN L. COX, OF PLAINVIEW, NEBRASKA.

MEDICAL BELT OR BANDAGE.

Application filed July 1, 1922. Serial No. 572,172.

To all whom it may concern:

Be it known that I, JOHN L. COX, a citizen of the United States, residing at Plainview, in the county of Pierce and State of Nebraska, have invented certain new and useful Improvements in Medical Belts or Bandages, of which the following is a specification.

This invention relates to new and useful improvements in medical appliances and more particularly to a liquid container adapted for application to the body and the primary object of the invention is to provide a container of the class described, designed in the form of a belt or bandage through which may be circulated cold or hot air, cold or hot water or any other desired liquid.

Still another object of the invention resides in providing a container designed to fit or encircle bodies of various sizes and further provided with means for suspending the same from the shoulders.

Still another object of the invention resides in providing a container of substantially tubular design, closed at its ends and provided adjacent said ends with valves for the inlet and outlet of the liquid to be circulated through said container.

A still further object resides in providing a device which is simple and durable in construction, inexpensive to manufacture and one which will be very efficient and useful in operation.

With these and other objects in view, my invention consists in the novel features of construction, combination and arrangement of parts as will be hereinafter referred to and more particularly pointed out in the specification and claim.

In the accompanying drawing, forming a part of this application,

Figure 1 is a plan view of a device constructed in accordance with my invention with its ends engaged as though applied to use,

Figure 2 is a front elevation of the same, and

Figure 3 is an enlarged rear elevation of the device in outspread position, with parts broken away.

In describing the invention, I shall refer to the drawing in which similar reference characters designate corresponding parts throughout the several views and in which 1 designates a substantially tubular belt or

bandage formed of air-tight and waterproof material, such as rubber, canvas or similar materials, said tubular belt or bandage being closed at its ends as shown at 2. Secured to the one end of the tubular belt or bandage 1 are the engaging straps 3 while buckles 4 are secured to the opposite end whereby it will be seen that this belt or bandage may be encircled about bodies of various sizes and secured in position thereon. Shoulder straps 5 are engaged in any preferred manner with this belt or bandage 1 so that the latter may be properly suspended in position and although not disclosed, these straps may be made adjustable for obvious purposes.

While I particularly disclosed and described a strap and buckle connection for the ends of this belt or bandage, it will be understood that any other form of engaging means, such as laces, may be provided as I do not wish to limit myself to the specific form illustrated.

It is a well known fact that two separate containers are ordinarily necessary in the application of hot water containers and ice containers to the body and it is also a well known fact that both of these forms of containers may be used but for a short length of time, due to the ordinary wear and tear thereon. It is an object of this invention to provide a container which may perform a double function of being used as a hot water or air container and also as a cold air or liquid container to be substituted for both the hot water bags and ice bags now in use. In carrying out this idea, I desire to provide this tubular bandage or belt with a pair of valves respectively numbered 6 and 7 in the drawing. These valves are preferably located at points adjacent the ends of the belt or bandage and afford means whereby hot or cold air or any other desired liquid may be circulated through the device; and while denominated valves are nevertheless elements affording communication with the interior of the belt and closed when not in use by removable caps, so that, on the removal of the caps, a circulating hose or pipe may be attached. It will be understood, of course, that in the circulation of hot or cold liquids through this device, some means must be provided for forcing the liquid therethrough but as this forms no part of my invention, I have not disclosed the same.

In order that this device may be equally well adapted for use where parties are not

provided with a liquid compressing means, I have constructed my device to be used in the same manner that the ordinary water and ice bags are used. To this end, I provide the tubular belt or bandage with an opening of somewhat enlarged diameter which is covered with a screw cap 8. This opening may be provided in any position on the belt or bandage and permits of hot or cold air, ice or any desired chemical to be introduced thereto and retained therein until its effectiveness has become lost.

From the foregoing description of my improved medical appliance, it will be seen that I have provided a simple, inexpensive and efficient means for carrying out the objects of the invention and the operation thereof will be readily understood.

While I have particularly described the elements best adapted to perform the functions set forth, it is obvious that various changes in form, proportion and in the

minor details of construction may be resorted to, without departing from the spirit or sacrificing any of the principles of the invention.

Having thus described my invention, what I claim is:—

A device for the purpose indicated comprising a tubular belt closed at its ends and provided at said ends with interengaging means to secure it in surrounding relation to the body of the subject being treated, said belt being provided adjacent said closed ends and on the exterior face with valves and at an intermediate point in its length and on the exterior face with a capped opening for the introduction of a static tempering agent, said valves being adapted for connection to a circulating pipe or hose for the alternate use of a circulating tempering agent.

In testimony whereof I affix my signature.
JOHN L. COX.