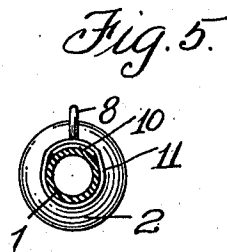
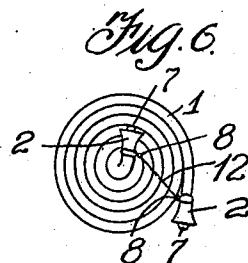
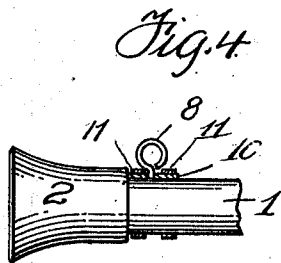
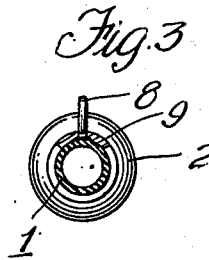
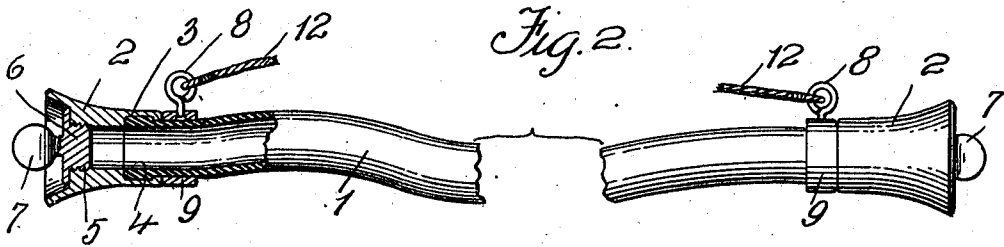
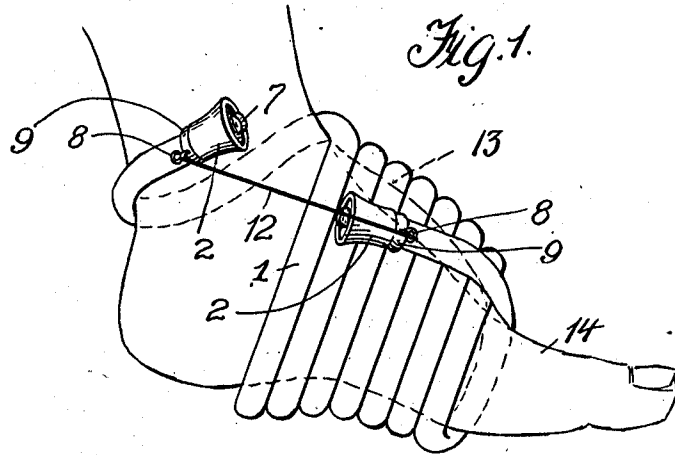


J. E. FORBES & B. A. DARR.
HOT WATER BANDAGE.
APPLICATION FILED DEC. 2, 1909.

970,907.

Patented Sept. 20, 1910.



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UNITED STATES PATENT OFFICE.

JAMES E. FORBES, OF KOPPLE, AND BARBARA A. DARR, OF McKEES ROCKS, PENNSYLVANIA.

HOT-WATER BANDAGE.

970,907.

Specification of Letters Patent. Patented Sept. 20, 1910.

Application filed December 2, 1909. Serial No. 531,073.

To all whom it may concern:

Be it known that we, (1) JAMES E. FORBES and (2) BARBARA A. DARR, citizens of the United States of America, residing at 5 (1) Kopple and (2) McKees Rocks, in the counties of (1) Beaver and (2) Allegheny, respectively, and State of Pennsylvania, have invented certain new and useful Improvements in Hot-Water Bandages, of 10 which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to bandages, and the primary object of our invention is to 15 provide a bandage that can be easily applied to various parts of the body for maintaining the same in a warm and heated condition.

Another object of the invention is the 20 provision of simple and effective means for giving various parts of the body a treatment that is derived from the use of hot water, for instance such as received from the ordinary hot water bag.

It is a well-known fact that it is an extremely difficult matter to retain a hot water bag against various parts of the body, without assuming an uncomfortable position 25 throughout the treatment. Furthermore, it is practically impossible to arrange an ordinary hot water bag against that portion of the body to be treated without the bag at some time or other becoming displaced due to a movement of the body.

Our invention aims to provide a hot water receptacle of such a form that it can be applied similar to a bandage and wrapped and retained upon the injured part of the body to receive treatment, the very fact of it being a bandage indicating that it can be 30 retained upon the body irrespective of any movement by the wearer.

Our invention will be hereinafter considered in detail and then claimed, and reference will now be had to the drawing forming part of this specification, wherein there is illustrated a preferred embodiment of the invention, but it is to be understood that the structural elements thereof can be varied or 35 changed, as to the size, shape and manner of assemblage without departing from the spirit and scope of the invention as claimed.

In the drawings: Figure 1 is a side elevation of our hot water bandage as applied to 40 a foot. Fig. 2 is an enlarged elevation of a

portion of the bandage, partly broken away and partly in longitudinal section. Fig. 3 is a cross sectional view of the bandage. Fig. 4 is an elevation of a portion of the same illustrating a modified form of means 60 for securing eyelets to the bandage. Fig. 5 is a cross sectional view of the modification shown in Fig. 4, and Fig. 6 is a plan of the bandage arranged to obtain the same results in connection with a body as the ordinary 65 hot water bag.

In the accompanying drawings, the reference numeral 1 denotes a piece of flexible tubing that may be of any desired length and diameter. This tubing is preferably 70 made of thin rubber similar to the rubber used in connection with an ordinary hot water bag, but we reserve the right to use waterproof fabric or any other suitable material. 75

Fixed upon the ends of the tube 1 are funnel-shaped mouth pieces 2, constituting convenient means for filling the tube with hot water and for closing the ends of the tube after it has been filled. As one means 80 of fixing the mouth pieces upon the ends of the tube, the inner walls of the mouth pieces are recessed, as at 3, and the tube 1 enlarged, as at 4, to fit in the recess 3. The enlargement 4 constitutes a collar adapted to 85 fit in the annular recess or groove 3, but we desire it to be understood that the mouth pieces can be clamped or otherwise fixed upon the ends of the tube. The mouth pieces may be made of metal or of hard rubber. 90 The inner walls of the mouth pieces adjacent to the outer ends thereof are threaded, as at 5, to receive screw-plugs 6 provided with wings or buttons 7 to facilitate the screwing of the plugs into the mouth pieces. 95 The plugs can be made of metal or rubber and when mounted in the mouth pieces are adapted to provide a water-tight connection.

Connected to the tube 1 adjacent to the mouth pieces 2 are eyelets 8, and we have 100 illustrated in the drawings two ways of securing eyelets to the tube. In Figs. 1 to 3 inclusive the eyelets 8 are carried by metallic bands 9 fitted upon the tube 1, while in Figs. 4 and 5, the eyelets 8 are carried by small 105 plates 10 held in engagement with the tube 1 by straps 11 encircling the tube and plate. In some instances additional eyelets can be located intermediate the ends of the tube, whereby the tube can be securely arranged 110

upon parts of the body where it must be wound in various directions. The eyelets 8 are connected by a cord or cable 12, and by reference to Fig. 1 of the drawings, it will be observed that the cord or cable performs a very important part in holding the tube 1 upon the swollen portion 13 of the foot 14. Of course the exact manner of winding the tube upon the foot is optional to the person applying the same, but from the arrangement shown in Fig. 1, it will be observed that the swollen portion 13 will be positively subjected to the heat radiated by the hot water within the tube 1. To obtain a large area, similar to a hot water bag, the tube can be wound as shown in Fig. 6 and its application made similar to a bag.

From the foregoing it will be observed that we have devised a tubular hot water receptacle that can be easily applied to any portion of the body and retained in position, the receptacle constituting a bandage that can be used for many complaints.

Having now described our invention, what we claim, is:—

1. A fluid containing bandage comprising an elongated flexible hollow cylindrical member open at each end and constituting a reservoir, a mouth piece secured to and projecting from each end of said member, means for closing each of said mouth pieces, an attaching band mounted upon said flexible member and abutting against the inner end of each of said mouth pieces, an eyelet se-

cured to and projecting laterally from each of said bands, and a flexible coupling element engaging with said eyelets for connecting the ends of the member together whereby the bandage is maintained in position.

2. A fluid containing bandage comprising a relatively long flexible hollow cylindrical member open at each end and constituting a reservoir, a funnel-shaped mouth piece secured to and projecting from each end of said member and provided with interior threads and a seat at the outer terminus of the threaded portion, means extending in each of said mouth pieces and engaging with the thread and abutting against the seat of its respective mouth piece for closing the latter, a pair of bands mounted upon said member and abutting against the inner ends of said mouth pieces, eyelets carried by and projecting laterally from said bands, and a flexible coupling element fixed at one end to one of said eyelets and adapted to have its other end attached to the other of said eyelets for connecting the ends of said member together whereby the bandage is maintained in position.

In testimony whereof we affix our signatures in the presence of two witnesses.

JAMES E. FORBES.
BARBARA A. DARR.

Witnesses:

H. C. EVERT,
MAX H. SROLOVITZ.