W. H. COON.

MASSAGE INSTRUMENT.

APPLICATION FILED AUG. 25, 1904.

926,245. Patented June 29, 1909.

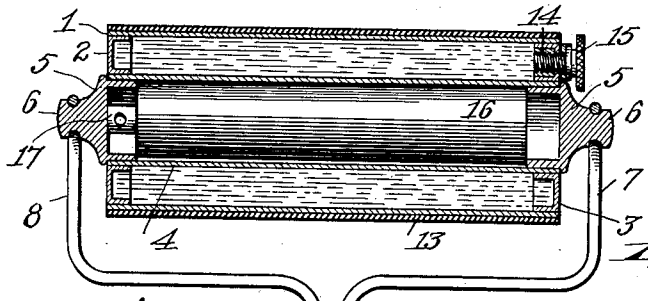


Fig. 2.

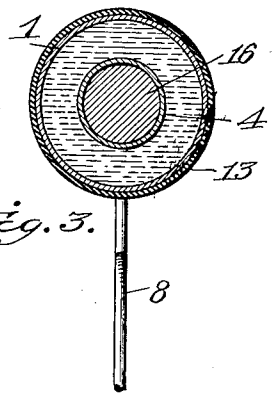


Fig. 3.

Fig. 5.

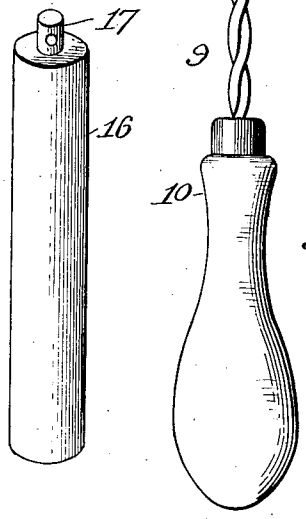


Fig. 4.

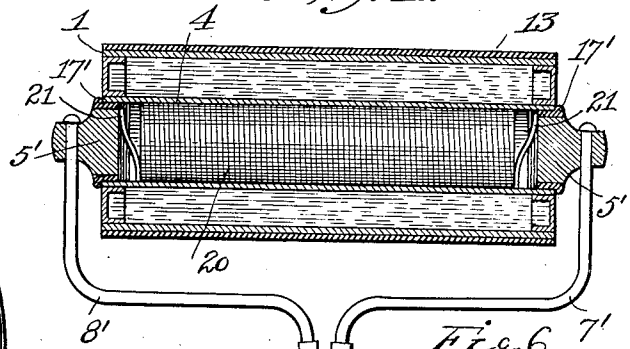
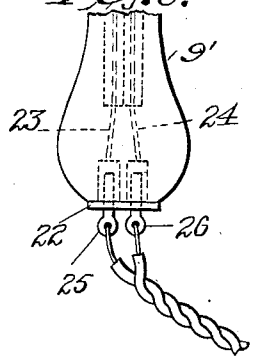


Fig. 6.



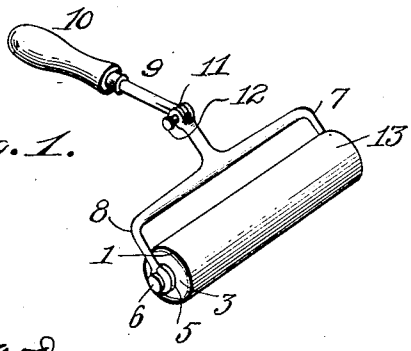


Fig. 1.

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MASSAGE INSTRUMENT.

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To all whom it may concern:

Be it known that I, WILLIS H. COON, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Massage Instruments; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the reference-numerals marked thereon.

My present invention has for its object to provide an instrument adapted to be employed for masséing or treating the human body by external, mechanical manipulation, and it consists generally of a revoluble body or drum mounted upon a suitable handle or support, which in addition to being made hollow in form, to receive water or other liquid, is also provided with a chamber adapted to contain a heating device by means of which the liquid may be retained in a warm or heated condition for a considerable length of time.

To these and other ends the invention consists in certain improvements and combinations of parts all as will be hereinafter more fully described the novel features being pointed out in the claims at the end of the specification.

In the drawings: Figure 1 is a perspective view of an instrument constructed in accordance with my invention. Fig. 2 is a longitudinal sectional view, and Fig. 3 is a cross sectional view thereof. Fig. 4 is a sectional view similar to Fig. 2, illustrating the instrument provided with a modified form of heating device. Fig. 5 is a detail perspective view of the heating device. Fig. 6 is a detail view of the handle of the instrument.

Similar reference numerals in the several figures indicate similar parts.

An instrument embodying my invention comprises a hollow cylindrical body portion or roller 1 having the ends 2 and 3 through which extends a centrally arranged tubular sleeve 4 forming an interior chamber for a purpose to be more fully described hereinafter. Fitting into the ends of the chamber are caps 5, provided with the outwardly extending ends 6 forming trunnions journaled in the ends of arms 7 and 8 which are joined or united into a single arm 9 forming a handle to the end of which is attached a hand piece 10. In practice, this hand piece may be connected in proximity to the roller, if desired, or a joint 11 may be interposed in the arm 9 dividing the latter into two portions which may be adjusted at an angle to each other and secured by a set screw 12 permitting an operator when employing the instrument, for personal application, to more conveniently reach inaccessible portions of the body.

The body or roller 1 of the instrument is provided with a sheath or covering 13 of rubber, or the like, the surface of which may be plain or corrugated to suit the particular purpose for which the instrument may be employed. This covering may be attached to, or formed integrally with, the roller, but I preferably make it removable so that different covers may be interchanged and if desired one may be substituted which is composed of absorbent material, such as cloth, to permit the device to be used for applying liniment or similar medicinal preparations. The space between the outer shell of the body and the sleeve 4 is adapted to be filled with water and for this reason the end 3 is provided with an aperture 14 which is normally closed by the screw cap 15. The arms 7 and 8 of the handle are yielding and may be moved sufficiently to permit the caps 5 to be detached to allow a roller to be removed and replaced by another one, and also to afford access to the chamber formed within the sleeve 4, whereby a heating device such as an iron 16 as shown in Fig. 5, may be inserted after having been heated in any suitable manner, said iron being provided with a perforated eye 17, at one end thereof by means of which it may be handled. The outer shell and the sleeve 4 of the body are constructed of thin sheet metal, preferably copper which will readily radiate the heat from the inclosed iron, the size of the latter and the volume of water contained in the surrounding chamber being proportionate so that the outer surface of the body or drum cannot be heated to a dangerous temperature, but will be retained in a warm condition for a considerable length of time.

In Fig. 4 I have illustrated a form of the device adapted to be used where an electric current is available which may be utilized for heating the instrument. In this embodiment of my invention the arms 7′ and 8′ are composed of separate pieces of wire

passing through the hand piece 9′ and provided with coverings of insulating material 18. At their outer ends they are attached rigidly to the caps 5′ by passing through apertures or perforations therein. The caps are also insulated from the body by rings 17′ of vulcanized rubber or similar material forming a suitable bearing on which the body or drum may rotate without forming a short circuit between the supporting arms. The heating device in this instance consists of a suitable coil 20 of wire, which is removably inserted within the sleeve 4, having at its ends spring fingers or contacts 21 bearing against the inner faces of the caps 5′. At the outer end of the hand piece 9′ is a plate 22 having sockets connected by wires 23 and 24, as shown in dotted lines, to the outer ends of the conductors forming the arms 7′ and 8′, said sockets being adapted to receive pins 25 and 26 on the ends of circuit wires, as shown, leading from any convenient source of current supply. From this it will be seen that when the pins 25 and 26 are placed in their respective sockets an electric current may be passed through the arms 7′ and 8′, and through the contacts 21 into the coil 20 causing the latter to become heated and likewise heating the water contained in the body or drum to any desired temperature.

An instrument embodying my invention is simple in construction and embodies but few parts, which may be readily assembled. By making the handle detachable from the bodies, those having different coverings or surfaces, may be interchanged and employed for different purposes and by arranging the electric heating coil whereby it may be removed from its chamber, the same instrument may be heated by employing an iron or by other means if a source of current supply is inaccessible to the operator.

I claim as my invention:

1. In a massage instrument comprising a body having a chamber adapted to contain water and a separate chamber adapted to receive a heating device and a handle on the body for manipulating it.

2. A massage instrument comprising a handle and a body revolubly supported thereon provided with a central chamber adapted to contain a heating device the walls of said chamber being separated from the walls of the body to provide a surrounding water chamber.

3. In a massage instrument, the combination with a drum and an open-ended imperforate sleeve extending therethrough and connected at its ends to the drum, of removable caps journaled within the open ends of the sleeve and a handle having arms engaging the caps.

4. In a massage instrument, the combination with a cylindrical drum having inclosing ends and an imperforate sleeve arranged therein open at its ends and supported in the ends of the drum, of a handle and detachable connections carried thereon and journaled within the sleeve.

5. In a massage instrument, the combination with a drum provided with a central tubular chamber, of a jointed handle having arms supporting the body and a clamping device for adjustably securing the parts of the handle together.

6. In a massage instrument, the combination with a hollow drum, a sleeve therein and an electric heating device independent of the drum and located in the sleeve, of a handle revolubly supporting said drum and conductors leading from the heating device to the exterior of the drum.

7. In a massage instrument, the combination with a revoluble drum and an electric heating device therein revoluble with the drum, having contacts leading outwardly at opposite ends of the drum, of a handle having arms revolubly supporting the drum at its ends and connected to the contacts and current supply conductors connected to the arms.

8. In a massage instrument, the combination with a revoluble drum and a removable heating device supported therein and revoluble with the drum, having contacts leading outwardly at the ends of the drum, of a handle having supporting arms comprising conductors adapted to be connected to a source of current supply and pivotal connections between the arms and the heating device.

9. In a massage instrument, the combination with a drum and an electric heating device independent of the drum and removably supported therein, of a handle having supporting arms comprising conductors adapted to be connected to a source of current supply, devices for revolubly securing the drums to the arms and contacts between the heating device and said securing devices.

10. In a massage instrument, the combination with a body having a central chamber extending longitudinally therethrough, an electric heating device located in the chamber and caps fitting therein and insulated from the body, and a handle comprising arms attached to the caps and forming conductors adapted to be connected to a source of current supply and contacts between the caps and the heating device.

11. In a massage instrument, the combination with a drum and a removable heating device supported therein, of a handle having supporting arms comprising conductors which are pivotally connected to the heating device and are adapted to be connected to a source of current supply.

12. In a massage instrument, the combi-

nation with a hollow drum and an electric heating device independent of the drum and located therein, of a handle revolubly supporting said drum and conductors leading from the heating device to the exterior of the drum.

13. In a massage instrument, the combination with a drum and an electric heating device therein, of a handle revolubly supporting said drum and conductors leading from the heating device and passing through the handle and adapted to be connected to a source of current supply.

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