Dec. 11, 1962 L. KARLIK 3,067,739

PRESSURIZED WATER, COMPRESSED AIR AND STROKING MASSAGE DEVICE

Filed Oct. 26, 1961

FIG. 1

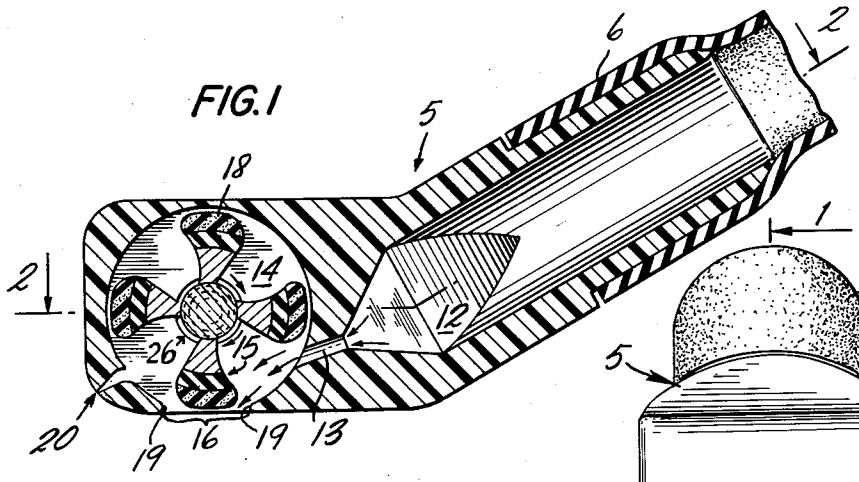
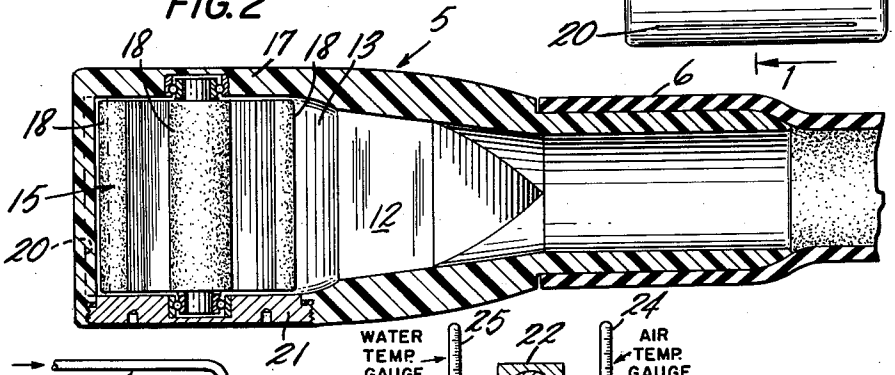


FIG. 3

FIG. 2



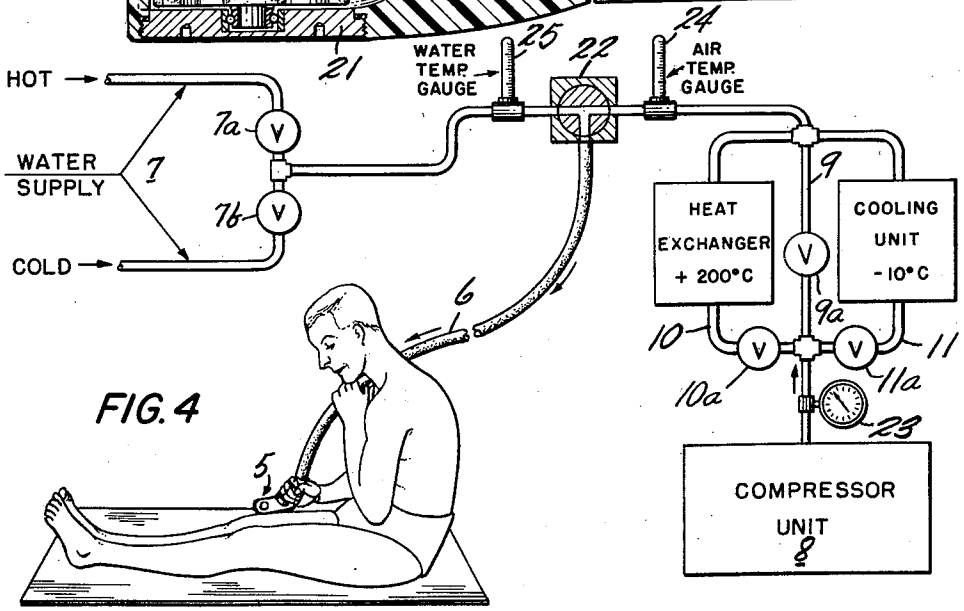


FIG. 4

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PRESSURIZED WATER, COMPRESSED AIR AND STROKING MASSAGE DEVICE

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2 Claims. (Cl. 128—66)

This application is a continuation-in-part of application Serial No. 7,818, filed on February 10, 1960.

The invention relates in general to body massage devices and more particularly to a device for combining stroking massage from a stroking roller with percussion and whipping friction massage of highly pressurized water and compressed air blasts.

Water massage has herebefore been accomplished by a masseur massaging the body with hands and in a flow of warm water. Only the temperature of the water has been varied to obtain any benefit from this type of massage.

There are known devices employing water under pressure for pivotally rotating a rotor which gives vibration motion to a flexible massage member having small outlets through which said water escapes to run over the body.

A direct massage from highly pressurized water, compressed air and from resilient arms of a rotatable stroking roller is novel with this application.

It is an object of the invention to provide an improved massage device in which a stroking massage from resilient arms of a stroking roller rotated from highly pressurized fluids is administered to the body with percussion massage and whipping friction massage of the highly pressurized water and compressed air blasts of the kinetically powerful whirling fluids which can be used separately or combined with further therapeutic advantage of the application of heat and cold.

Other objects and fuller understanding may be had by referring to the following description and claims taken in conjunction with the accompanying drawings in which:

FIGURE 1 is a side elevation in cross-section of the massaging device;

FIGURE 2 is a cross-section along section lines 2—2 of FIGURE 1;

FIGURE 3 is a front elevation of the apparatus shown in FIGURE 1 and in which section line 1—1 indicates the cross-section of FIGURE 1, and

FIGURE 4 is a diametric view of the invention connected to an outside supply of water and compressed air and being used.

Referring to the drawing, frame **5** is made preferably of plastic material in one piece, comprising pressure chamber **12** and massage chamber **14**, and forming an obtuse angle at the juncture, and with an inlet the said frame is attached with an elastic wide hose **6** to hot and cold water faucet **7** for providing water under desired pressure and at desired temperature. The more the water faucet valves **7***a*, **7***b* are opened, the more water pressure is developed in the pressure chamber **12** and thus the high of the water pressure being regulated. The inlet of said frame is also attached by said hose **6** to a compressor unit **8** that provides compressed air which can be supplied either at normal temperteure through the pipe **9**, or it can be heated to about 200 degrees C. by the means of a gas or electric burner applied to metal pipe **10**, or it can be cooled to about minus 10 degrees C. by the means of ice and salt refrigerant applied over the metal pipe **11**. Both sources of said fluids can be combined by the means of a threeway valve **22** whereby the high of the water pressure can be substantially increased and the temperature can be applied with more intensive power.

By opening of the water faucet pipes valves **7***a*, **7***b* according to desired pressure and temperature shown in water temperature gauge **25** and adjusting compressed air valves **9***a*, **10***a*, **11***a* according to desired temperature shown in air temperature gauge **24** and according to desired pressure shown in the pressuremeter **23**, fluids will be combined in the threeway valve **22** and will enter through a flexible hose **6** into the pressure chamber **12**, where, because of a small longitudinal passageway **13** the high pressure of said fluids will be maintained and jet blasts will be developed and directed into the massage chamber **14** against scoop-shaped arms of a stroking roller **15** and upon the massaged portion of the body through the massage hole **16**. To facilitate insertion into the massage chamber **14** and also to act as a bearing for the shaft of said roller on the insertion side, the frame is provided on one side with a screw in cap **21** and the stroking roller **15** is rotatably journalled with one end in a side wall of the frame **17**, and with the other end in a threadable cap **21** mounted in said frame adjacent said massage chamber and in alignment with the massage hole **16**. The stroking roller **15** has radial, symmetrically spaced, scoop-shaped, resilient arms around the periphery of the center portion **26** consisting of a shaft and cylinder, said arms extending transversely to both sides of the massage chamber frame **17** and circumferentially toward the circular encasement and contacting with the rubber-like pads **18** on the massaging ends the massaged portion of the body through the massage hole **16** and so to provide a stroking massage to the skin and muscles which extends through said massage chamber hole **16** to contact said resilient massaging arms **15** with a touch according to the sliding pressure of the frame bottom surface applied by hand movement over the body. The massage hole **16** is provided with rounded ends **19** to provide a smooth sliding pressure movement over the skin.

On the opposite side of the passageway **13**, the massage chamber **14** is provided with pinholes **20** communicating with the interior of the massage chamber **14** and the outside atmosphere, through which said highly pressurized fluids are ejected upon the body with needlelike whipping friction for stimulative and tonic massage effects.

The invented device thus will give three types of body massage: first, a stroking massage from the resilient arms of the stroking roller rotated by the fluid's jet blasts; second, percussion massage from the vigorous kinetically whirling jet blasts directed upon the body through the massage hole; and third, needlelike whipping friction massage for stimulative and tonic effects from the ejected fluids through the pinholes.

The device is understood to be used also without the stroking roller, and separately for pressurized water massage or compressed air massage, and although the invention has been described with a certain degree of particularity, it is understood that the present disclosure has been made only by way of example and that numerous changes in the details of construction and the combination and arrangement of parts may be resorted to without departing from the spirit and scope of the invention as hereinafter claimed.

What I claim and desire to be secured by Letters Patent is:

1. A pressurized water, compressed air and stroking massage device comprising in combination with sources of pressurized water and compressed air which are both temperature and pressure regulated, a frame including a pressure chamber; a massage chamber joined to said pressure chamber and forming an obtuse angle at the juncture; a jet passageway communicating with both said chambers; a massage hole in the bottom of said massage chamber; pinholes in the opposite side of said massage

chamber from said jet passageway; said pinholes communicating with the interior of said massage chamber and the atmosphere; the opposite end of said pressure chamber from said jet passageway being connected with a flexible hose leading to said fluid sources; a stroking roller having a plurality of radial, symmetrically spaced, scoop-shaped, resilient arms; said roller having one end journalled in a side wall of said frame adjacent said massage chamber and in alignment with said massage hole; a cap threadably mounted into said frame adjacent the opposite end of said roller; and said opposite end of said roller being journalled in said cap.

2. In a massage device the combination of: pressurized water and compressed air massage sources, both fluids being temperature and pressure regulated; a frame defining a pressure chamber and massage chamber, said two chambers joined with a jet passageway; a massage

hole on the bottom of said massage chamber and pinholes adjacent said massage hole and on the opposite side from said jet passageway; a stroking roller mounted in said massage chamber adjacent said jet passageway and journalled with the ends in opposite sides of said frame; and a flexible hose attached with one end to the inlet of said pressure chamber and with the other end attached to said fluid sources utilized by said device for forceful rotation of said stroking roller and for therapeutic and physiological manipulation of the body.

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