June 11, 1935. J. M. DAVIES 2,004,428

MASSAGE APPARATUS

Filed April 26, 1932

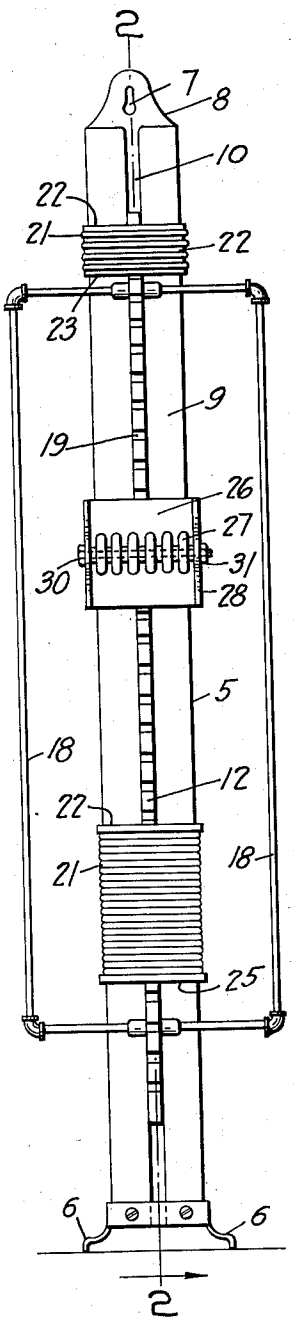


FIG. 1

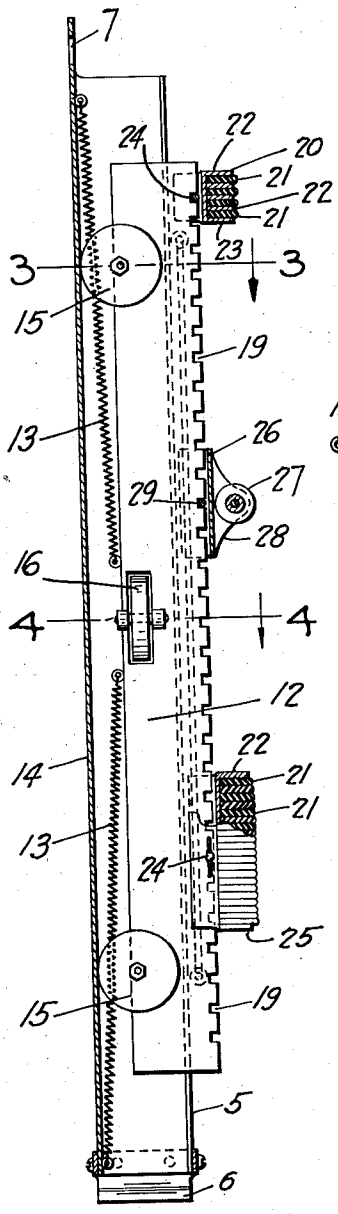


FIG. 2

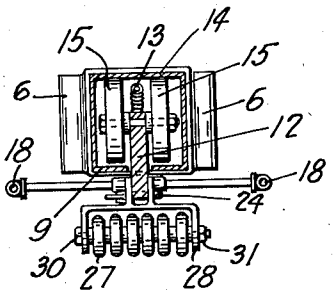


FIG. 3.

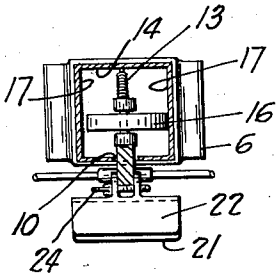


FIG. 4

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MASSAGE APPARATUS

John M. Davies, Denver, Colo.

Application April 26, 1932, Serial No. 607,523

3 Claims. (Cl. 128—51)

This invention relates to massage apparatus, and its main object is to provide a mechanism of very simple construction which may be produced at low cost, which is operated by hand and which is efficient in the treatment of disorders or the invigoration of body-parts, for which devices of this character are commonly employed.

Other objects of the invention principally residing in details of construction and novel combinations and arrangements of parts will be fully brought out in the course of the following description.

In the accompanying drawing, in the several views of which like parts are similarly designated,

Figure 1 represents a front elevation of a massage machine, made in accordance with the present invention,

Figure 2, a section taken on the line 2—2, Figure 1,

Figure 3, a transverse section along the line 3—3, Figure 2, and

Figure 4, a transverse section on the line 4—4, Figure 2.

Referring further to the drawing, the reference numeral 5 designates a standard, in practise, supported upon the floor by means of legs 6, and if placed against a well, held in position by means of a nail or hook projecting through a hole 7 in a flange 8.

The standard is hollow and of substantially rectangular section, and it has in its front wall 9 a longitudinal slot 10.

A carrier composed of a flat bar 12 is fitted in the slot for vertical reciprocation, and it is held yieldingly in a median position by coiled springs 13 stretched between points adjacent the center of the bar and fasteners adjacent the upper and lower ends to the rear wall 14 of the standard.

The carrier is guided in its upward and downward movement by rollers 15 engaging the rear wall of the standard, and a roller 16 engaging a side wall 17 of the same.

Handles 18 extending lengthwise of the carrier at opposite sides of the exterior portion of the same, function for the manual operation of the apparatus. The handles may be made of standard tubing and standard elbows, as shown in Figure 1 of the drawing.

The front edge of the bar 12, exteriorly of the hollow standard, has a series of notches 19, for the adjustable attachment of rubbing or massage units of different characters. Three of these units have been shown in the drawing, and their construction may be varied according to different requirements.

The unit shown at 20 consists of a plurality of knuckles 21, held apart by interposed spacers 22 in a U-shaped holder 23. The holder has apertured flanges at opposite sides of the bar 12 and bolts 24 extending through the apertures of the flanges, and one of the notches of the bar fastens the unit to the bar. The unit shown at 25 is made similarly to that hereinbefore described, excepting that there is a larger number of knuckles.

The unit shown at 26 comprises a number of wheels 27 mounted for rotation between flanges of a holder 28 which is fastened in a notch of the carrier by means of a bolt 29. The wheels may be rotatably supported by a shaft composed of a bolt 30 extending through apertures of the flanges and held in place by a nut 31.

The knuckles and/or the rollers may be made of rubber or metal or any other suitable material, and they may be resilient or solid according to varying requirements.

In the operation of the apparatus, the user stands in front of the standard in any desired position. He may face the apparatus or may stand with his back or with a side toward the same, according to the part of the body to be treated. With one or more of the massage units, contacting with the body part or parts, the user moves the carrier up and downwardly by means of the handles 18, it being apparent that the springs automatically return the carrier to its normal position after each movement. In this manner, the body is subjected to a rubbing or kneading action, the effects of which may be regulated by varying the pressure of the body against the massage device or devices projecting from the moving carrier.

The position of the massage units may be adjusted according to different requirements, by changing their holders from one notch of the carrier to another.

What I claim and desire to secure by Letters Patent is:

1. Massage apparatus comprising a support, a carrier mounted for vertical reciprocating movement thereon, springs yieldingly opposing movement of the carrier in opposite directions, a massage unit on the carrier, and means for manual actuation of the carrier.

2. Massage apparatus comprising a hollow standard having a slotted wall, a carrier movable in the slot of said wall and projecting exteriorly of the standard, springs in the standard yieldingly resisting movement of the carrier in opposite directions, means on the carrier for its manual actuation, and a massage device on the carrier.

3. Massage apparatus comprising a hollow standard having a slotted wall, a carriage in the standard having a projecting portion in the slot and partially outside the standard, rollers on the carriage movable along the rear wall of the standard and a separate roller movable along the side wall of the standard, the rollers cooperating to permit movement of the carriage in the standard, springs in the standard yieldingly resisting movement of the carrier in opposite directions, a massage device mounted on the exterior portion of the carriage, and means for manual actuation of the carriage.

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