J. W. BOND.

MASSAGE INSTRUMENT.

APPLICATION FILED MAR. 31, 1916.

1,185,583. Patented May 30, 1916.

Fig. 1.

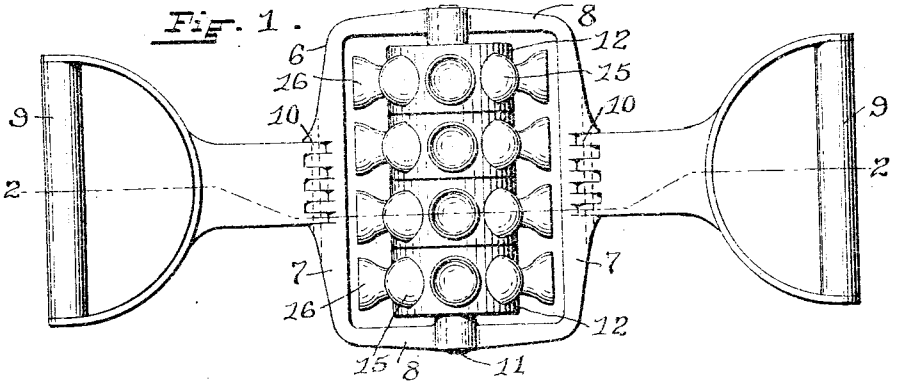


Fig. 2.

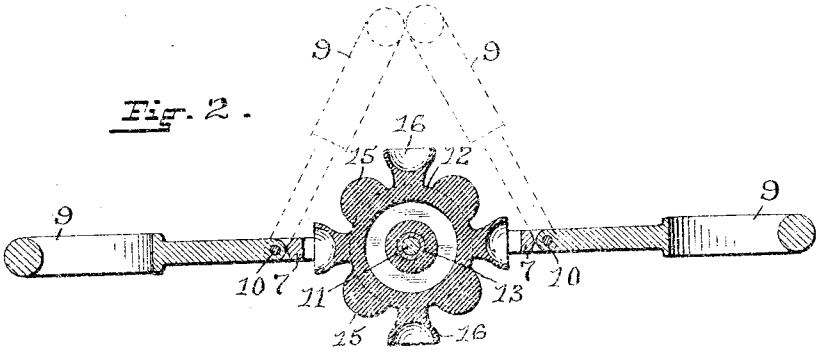


Fig. 3.

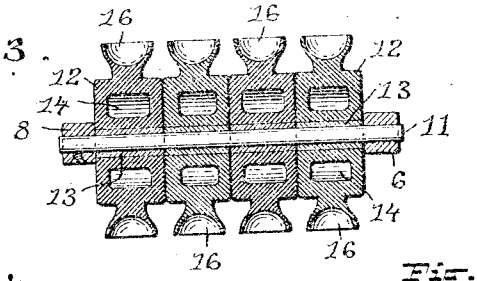


Fig. 4.

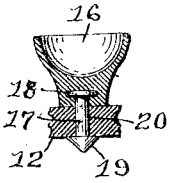
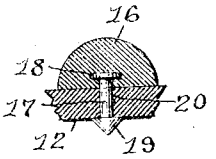


Fig. 5.



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MASSAGE INSTRUMENT.

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To all whom it may concern:

Be it known that I, JOHN WINN BOND, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Massage Instruments, of which the following is a specification.

My invention has reference to devices used in the operation of massaging the human body, and my principal object is to provide a device that will apply rapid intermittent and alternating pressure and suction to any part of the body, thereby producing the same or better results than that obtained by the direct application of the fingers and finger tips of professional masseurs.

Further objects of my invention are to construct a massage instrument so that the same may be used by both hands or by only one hand as desired, to rotatably support a plurality of rolls, each roll having alternating means for simulating the action of the ends of the fingers in exerting a pressure and for immediately relieving the pressure by suction applied to the parts, and by the use of a plurality of independently supported rolls the operations of pressure and suction are continually varying, relative to the surface of the body.

My invention consists in the peculiar and novel construction of a massaging instrument, said massaging instrument having details of construction, as will be more fully set forth hereinafter and claimed.

Figure 1 is a face view of my improved massaging instrument. Fig. 2 is a longitudinal sectional view taken on line 2. 2. of Fig. 1 showing the instrument in position for the use of both hands and with the handles brought together, in dotted lines, for use with one hand. Fig. 3 is a transverse sectional view taken centrally through the rolls. Fig. 4 is an enlarged detail sectional view of a modified means for securing the resilient suction cups to the rolls, and Fig. 5 is an enlarged detail sectional view of a modified means for securing the resilient finger ends to the rolls.

In the drawing 6 indicates a rectangular shaped open frame having the sides 7. 7. and ends 8. 8. A handle 9 is pivotally secured to each side frame 7 by a hinge 10. A stationary shaft 11 is supported at each end in the ends 8. 8. of the frame and on this shaft 11 is rotatably supported a plurality of hollow resilient rubber rolls 12. 12. Each roll 12 has a metal bushing 13 forming a revoluble bearing on the stationary shaft 11, a circular cavity 14, a series of semi-spherical peripheral resilient rubber finger tips 15. 15. and a series of intermediate peripheral resilient rubber suction cups 16. 16. as shown in Figs. 1 and 2.

The finger tips 15. 15. and the suction cups 16. 16. are preferably formed of soft rubber integral with the comparatively soft rubber rolls 12, they may be formed separate and cemented to the roll or they may be constructed with a metal shank 17 having a head 18 embedded in the finger tips or suction cup and a cone shaped end 19 and secured to the roll by forcing the metal stem through a peripheral hole 20 in the roll, as shown in Figs. 4 and 5.

The peripheral wall and side walls of the rolls are made sufficiently thick for strength and so that a predetermined amount of resiliency is obtained in the rolls, which will immediately assume their original form when the pressure is removed.

When in use the handles of my improved massage instrument, are grasped by the hands and the rolls under pressure, rolled back and forth over the abdomen or other parts of the body, or the handles may be brought together, as shown in dotted lines in Fig. 2 and the instrument used with one hand. The resilient rolls conform to the curvature of the body and under pressure the finger tips indent the flesh and the suction cups relieve or pull out the indentured flesh or skin and this intermittent action of the finger tips and suction cups is materially faster and the result far superior than could be accomplished by the human fingers, also by the use of a plurality of independently loosely mounted rolls, these operations are continually varying relative to the surface of the body that is being massaged.

It is evident that the construction of my improved massage instrument could be varied within the scope of the appended claims.

Having thus described my invention I claim—

1. A massage instrument comprising a frame, handles pivotally secured to the frame, a roll rotatably supported in the frame and a continuous series of outwardly

extending peripheral suction cups on the roll.

2. A massage instrument comprising a frame, handles pivotally secured to the frame, a resilient roll rotatably supported in the frame, and a continuous series of outwardly extending peripheral suction cups on the roll.

3. A massage instrument comprising a frame, oppositely disposed handles pivotally secured to the frame, a resilient roll rotatably supported in the frame, a series of peripheral resilient finger tips on the roll and a series of intermediate peripheral suction cups on the roll.

4. A massage instrument comprising a frame, oppositely disposed handles pivotally secured to the frame, a resilient roll rotatably supported in the frame, a series of peripheral resilient finger tips on the roll and a series of intermediate peripheral suction cups on the roll, said suction cups extending outwardly beyond the finger tips.

5. A massage instrument comprising a frame, oppositely disposed handles pivotally secured to the frame, a resilient roll rotatably supported in the frame, a series of semi-spherical resilient finger tips on the periphery of the roll and a series of intermediate suction cups on the periphery of the roll, said suction cups extending outwardly beyond the finger tips.

6. A massage instrument comprising a frame, oppositely disposed handles pivotally connected to the frame, a plurality of resilient rolls rotatably supported in the frame, each roll having a series of semi-spherical resilient finger tips on its periphery and a series of intermediate resilient suction cups on its periphery, said suction cups extending radially outwardly beyond the finger tips.

7. A massage instrument comprising a rectangular shaped open frame, oppositely disposed handles pivotally connected to the frame, a plurality of hollow resilient rolls rotatably supported in the frame, each roll having a series of semi-spherical resilient finger tips on its periphery and a series of intermediate resilient suction cups on its periphery, said suction cups extending radially outwardly beyond the finger tips.

8. A massage instrument comprising a rectangular shaped open frame, oppositely disposed handles pivotally connected to the frame, a shaft supported at each end in the frame, a plurality of hollow resilient rubber rolls rotatably supported on the shaft, each roll having a metal bushing forming a bearing for the roll on the shaft, a series of semi-spherical resilient rubber finger tips, on its periphery and a series of intermediate resilient rubber suction cups on its periphery, said suction cups extending radially outward beyond the finger tips and said handles being pivotally secured to the frame in a position for use by both hands or so the same may be brought together for use with one hand, as described.

In testimony whereof, I have signed my name to this specification.

JOHN WINN BOND.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."