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PATENTED APR. 16, 1907.

W. DOYLE.

MASSAGE INSTRUMENT FOR APPLYING OINTMENTS, LOTIONS, &c.

APPLICATION FILED DEC. 9, 1905.

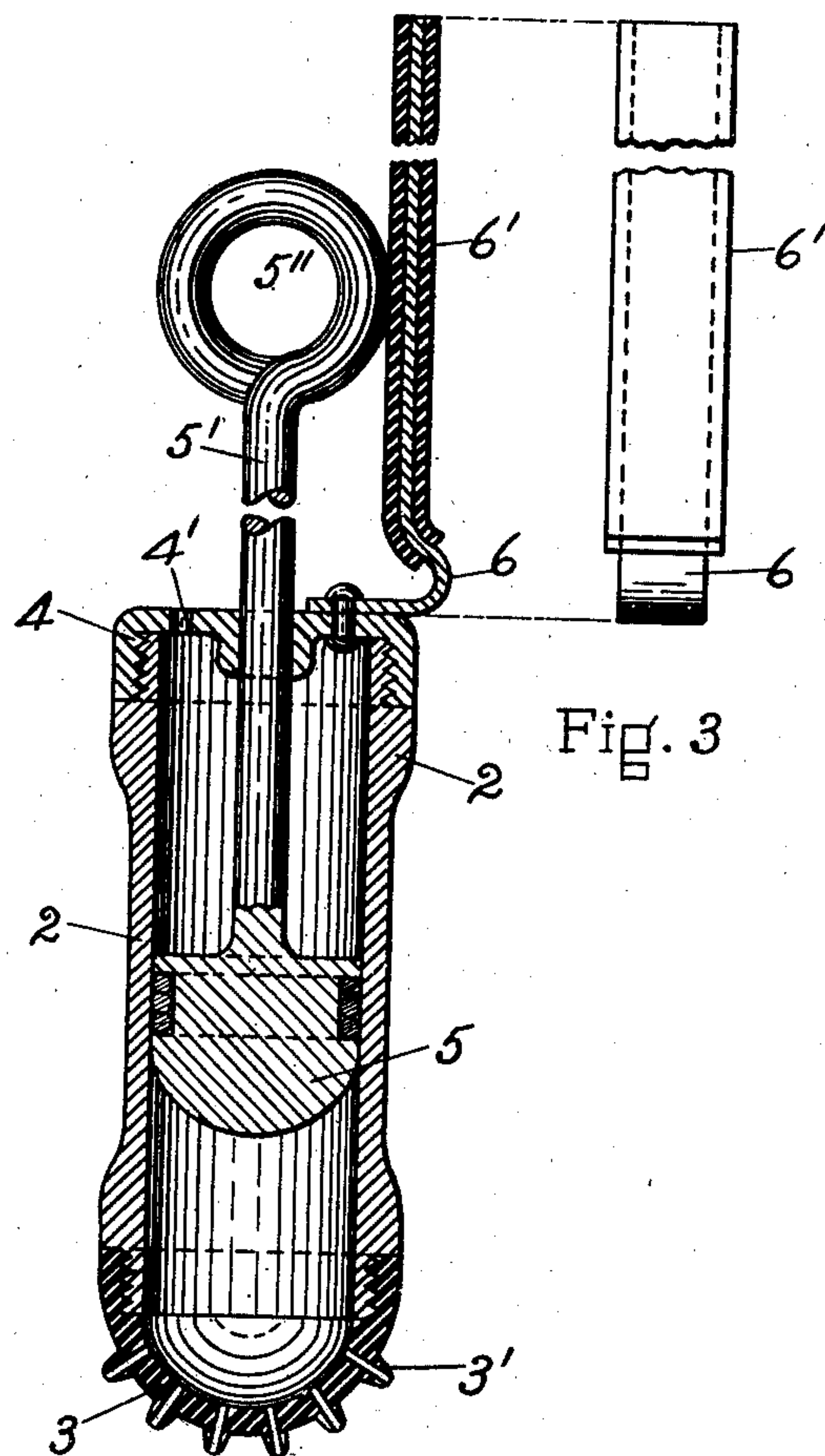


Fig. 3

Fig. 1

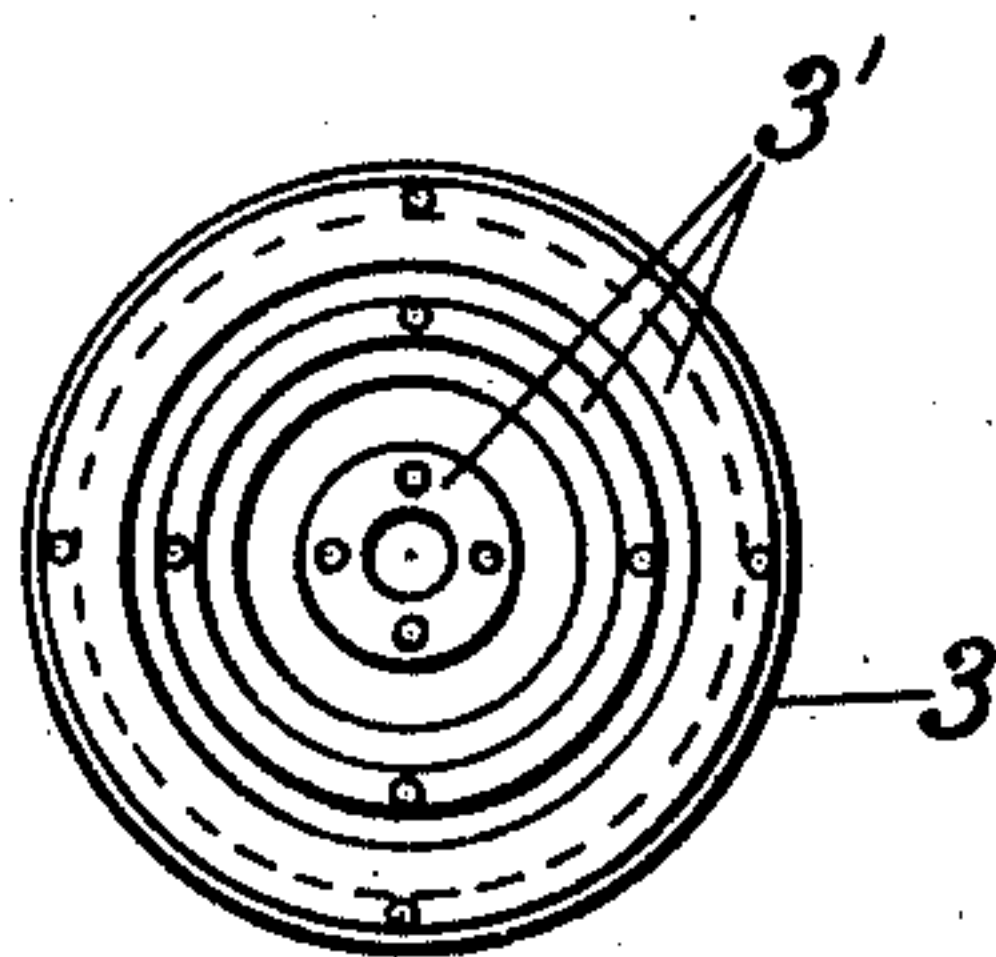


Fig. 2

WITNESSES:

George Salvet

Amelia W. Brumack

INVENTOR

William Doyle

BY

Henry A. Gough

ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM DOYLE, OF NEW YORK, N. Y.

MESSAGE INSTRUMENT FOR APPLYING OINTMENTS, LOTIONS, &c.

No. 850,357.

Specification of Letters Patent.

Patented April 16, 1907.

Application filed December 9, 1905. Serial No. 291,148.

To all whom it may concern:

Be it known that I, WILLIAM DOYLE, a subject of the King of England and Ireland, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Massage Instruments for Applying Ointments, Lotions, &c., of which the following is a specification.

My invention relates to toilet articles, and more particularly for an instrument for massaging the skin or scalp, while at the same time applying unguents, lotions, or other preparations to the surface treated.

The object of my invention is to produce a device which may be conveniently held in the hand of an operator, which shall have an end or face peculiarly adapted to massaging the skin, and which shall be capable of holding a supply of the medicament intended to be applied and from which it may be extruded as desired.

To this end the invention consists in the arrangement and combination of parts, as particularly set forth in the claims.

In the drawings, Figure 1 is a vertical sectional view of the preferable form of my device. Fig. 2 is a lower end view of Fig. 1. Fig. 3 is a front elevation of the piston-retaining spring.

In Fig. 1, 2 designates a cylinder of any suitable material, carrying at its lower end a massage-terminal 3. This in this figure is made in the form of a cap which screws on the cylinder. It might be made in one piece with the cylinder; but in order that the cylinder may be charged with medicaments of a thick consistency—such as toilet creams, vaseline, or other lotions—which cannot be conveniently drawn through the holes 3' in the terminal I make the terminal removable, preferably after the manner indicated in Fig. 1—that is, by providing the screw-thread engaging with the screw-thread on the cylinder 2. The upper end of the cylinder is closed by a screw-cap 4.

5 is a piston which fits the cylinder and is movable therein by means of a rod 5', passing through an opening in the cap 4. In order that the piston may be raised without difficulty, the cap 4 has a hole 4' through it. The upper end of the rod 5' may be formed in any suitable manner; but I prefer to form it with a ring 5'' to receive the finger of the operator. In order that the piston may not move too easily or be accidentally pushed

down by the force used in massaging, I provide it with means tending to hold it at any desired point. A simple device to this end consists of a vertical spring 6, riveted to the cap 4 and provided with a sheath 6', of elastic or frictional material, as rubber. The ring 5'' contacts with this sheath and will be held by it in position when the operator either removes the finger from the ring or ceases to press on the piston.

The massage-terminal is preferably made of rubber and has openings through which the medicament may be forced. It consists, preferably, of a perforated rubber disk concavo-convex in contour and provided on its outer face with corrugations 3'. These I show as annular, as this form lends itself best to massage manipulation; but I do not wish to be limited to this. The lower face of the piston is likewise convex in order that the material in the cylinder may be entirely pressed out. I prefer to make the plate 3 of vulcanized rubber with a smooth, polished surface, as rubbing with it generates a certain amount of frictional electricity; but plates of various materials may be used, depending upon the effect desired.

In applying lotions, creams, and other medicaments to the skin or oil, tonics, &c., to the scalp the hands of the operator soon become dry and require constant remoistening. By my device the operator has the command of a constant supply of fluid, which may be forced out as needed. The corrugated terminal is particularly adapted to massage manipulation, and the annular corrugations of the terminal shown are peculiarly adapted to the circular rubbing used in facial massage.

This device is particularly intended for use in massaging with thick medicaments—such as creams, lotions, jellies, &c.—and hence the massage-terminal is detachable from the barrel in order that the material may be placed within the same, such material being ordinarily too thick to be drawn up by the raising of the piston.

Having described my invention, what I claim is—

1. A massage instrument for applying ointments and lotions comprising a cylindrical barrel, adapted to form a handle, said barrel being open at one end, a perforated circular massage-terminal of the same diameter as the said barrel forming the other end of said barrel and closing it and convex upon its outer face, removable from but having a

liquid-tight engagement with the open end of said barrel, alternate ribs and depressions formed on the outer face of said massage-terminal forming a corrugated rubbing-face, 5 and a piston fitting the interior of the barrel and movable within the same and having a piston-rod projecting out at one end thereof.

2. A massage instrument for applying ointments and lotions comprising a cylindrical 10 barrel-like receptacle, a piston movable therein having a piston-rod projecting out at one end of said receptacle, a perforated massage-terminal at the other end thereof, and a spring mounted on the cylinder having an 15 elastic tact with the piston to hold it set at any desired point.

3. A massage instrument for applying ointments and lotions comprising a cylindrical barrel-like receptacle, a piston movable there- 20 in having a piston-rod projecting out at one end of the said receptacle, a perforated massage-terminal at the other end thereof, and a resilient pressure device elastically acting on the piston to hold it set at any desired point.

25 4. A massage instrument for applying ointments and lotions comprising a cylindrical barrel adapted to form a handle, said barrel being open at one end, a circular massage-terminal of the same diameter as the barrel re- 30 movable from but having a liquid-tight engagement with the open end thereof and closing it, said massage-terminal being convex upon its outer face and provided with alter-

nate ribs and depressions thereon, forming a corrugated rubbing-face and a piston fitting 35 the interior of the barrel and movable within the same, having a piston-rod projecting out at one end thereof, said terminal being provided with openings from the interior face thereof to the apex of the corrugations. 40

5. A massage instrument for applying ointments and lotions comprising a cylindrical barrel adapted to form a handle, said barrel being open at one end, a perforated circular massage-terminal of the same diameter as 45 the barrel removable from but having a liquid-tight engagement with the open end thereof and closing it, said massage-terminal being convex upon its outer face and provided with alternate ribs and depressions 50 thereon, said ribs being arranged concentrically to the axis of the cylindrical receptacle, forming a corrugated rubbing-face and a piston fitting the interior of the barrel and movable within the same and having 55 a piston-rod projecting out at one end thereof.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 5th day of 60 December, 1905.

WILLIAM DOYLE.

Witnesses:

FREDERIC B. WRIGHT,
J. A. VERNON.