

H. H. ROBERTS.
 MASSAGE AND VIBRATORY DILATOR.
 APPLICATION FILED SEPT. 6, 1907.

901,376.

Patented Oct. 20, 1908.

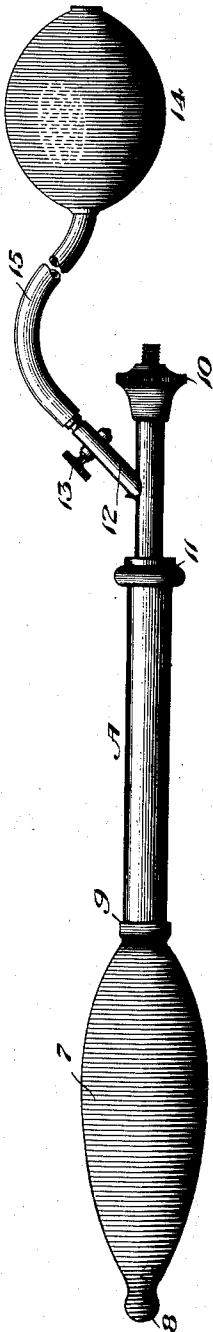


Fig. 1.

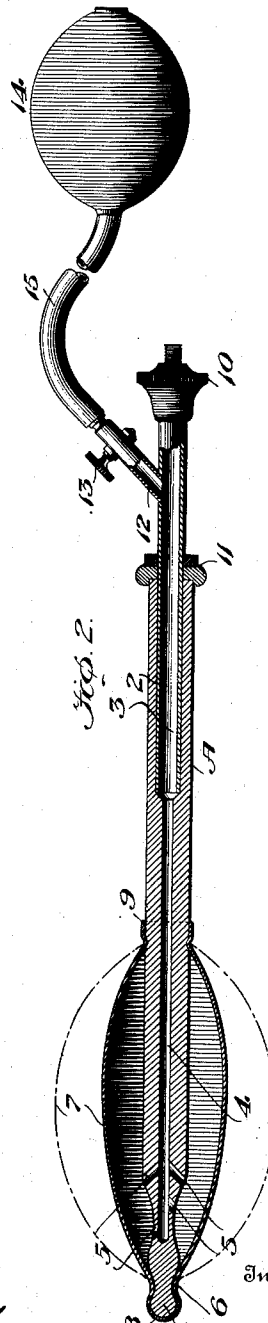


Fig. 2.

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334

UNITED STATES PATENT OFFICE.

HARVEY H. ROBERTS, OF LEXINGTON, KENTUCKY.

MASSAGE AND VIBRATORY DILATOR.

No. 901,378.

Specification of Letters Patent.

Patented Oct. 30, 1908.

Application filed September 8, 1907. Serial No. 391,046.

To all whom it may concern:

Be it known that I, HARVEY H. ROBERTS, a citizen of the United States, residing at Lexington, in the county of Fayette and State of Kentucky, have invented certain new and useful Improvements in Massage and Vibratory Dilators, of which the following is a specification.

My invention relates to an improvement in massage and vibratory apparatus, and its object is to treat the condition of the body by the therapeutic influence of vibration and dilatation, for such diseases as chronic constipation, hemorrhoids, fissures and other chronic conditions of the lower bowels, in which there is a lack or impairment of muscular development or tone, or any impairment in the functions of that part of the body, also for the treatment of prostatic trouble whether of chronic or acute inflammation also for the treatment by vibration and dilation of disease of the bladder, uterus, stomach, ear, nose, throat and cavities of the body.

The invention relates to certain novel features of constructions and combinations of parts which will be hereinafter described and pointed out in the claims.

In the accompanying drawing, Figure 1 is a view in side elevation, and Fig. 2 is a longitudinal sectional view.

A, represents a flexible rubber applicator, which is made solid at the end 1, and hollowed out through the center. The applicator is made on two bores, and the large bore 2 at the front end of the applicator is for the reception of the hollow stem 3. At one end of the bore 2, a smaller bore 4 is formed which extends to within a short distance of the end 1 of the applicator, and at about the end of the bore 4 openings 5, 5 are made through the applicator for the passage of air.

The end 1 of the applicator A has a slight depression 6, and over the end and around the applicator for a short distance, a rubber bag 7 is placed, and at the end of the bag which fits over the end 1 of the applicator a cap 8 is formed so that the end of the bag will conform to the end of the applicator and enter the depression 6 thereby preventing the bag from getting out of place. The bag 7 is preferably vulcanized to the applicator A, at 9, but of course it could be removably secured to the shaft.

The stem 3 is provided with a screw attachment 10 whereby the vibrating instru-

ment (not shown) may be attached. A collar or shield 11 is mounted on the stem 3 and extends around the end of the applicator A, and prevents any escape of air and assists in supporting the hollow stem.

Connected to the stem is a tube 12, having a stop-cock 13 therein, for admitting or releasing air to the stem and applicator for conducting the air to the bag 7, and this stop-cock is provided with a valve whereby the back pressure of air can not escape until properly released. A rubber bulb 14 is connected to the tube 12 by the rubber tubing 15 whereby air is conducted to the bag 7 by pressure being exerted on the bulb 14.

When the apparatus is introduced into the part to be treated, the rubber bulb by pressure being exerted thereon, forces the air through the applicator A, and through the openings 5, into the bag 7 dilating it the required amount, and then the vibrator is set in operation. Air can be admitted and released from the bag 7 without stopping the vibrator or in anywise disturbing the patient. It is the alternating contraction and dilatation of the bag with the vibratory movements that produce the massage effect upon the internal delicate muscular fibers and mucous membrane. This stimulates the muscular contraction and development, giving better circulation, depletes the parts of over ingorgement of blood, stimulates oxidation and restores the parts to healthy action.

By this invention I am able to give two distinct therapeutic treatments by means of the massage and dilatation, and by vibration or oscillation. By this treatment dilatation can be brought in the cavities of the body without the danger of air escaping into the cavities and thereby producing bad results.

It is evident that many slight changes might be made in the form and arrangement of the several parts described in making the apparatus in smaller or larger sizes whereby other parts of the body can be treated as the stomach, esophagus, nose and ear, without departing from the scope and spirit of my invention, and hence I do not desire to limit myself to the exact construction herein set forth; but:—

Having fully described my invention and what I desire to secure by Letters Patent, is:—

1. A massage and vibratory apparatus, comprising a hollow applicator having de-

pressions at one end, a bag conforming to the end of the applicator and received in the depressions and connected at its other end to the applicator.

5 2. A massage and vibratory apparatus comprising a hollow applicator having depressions therein at one end, a bag connected to the applicator, and the end of the bag adapted to conform to the shape of the end
10 of the applicator, a stem connected to the applicator whereby a vibratory effect may be produced, and means connected to the stem for inflating the bag.

3. A massage and vibratory apparatus
15 comprising a hollow flexible applicator, a bag connected to the applicator, a hollow stem journaled in the applicator, and means connected to the stem for inflating the bag.

4. A massage and vibratory apparatus
20 comprising a hollow flexible applicator, a bag connected to the applicator, a stem journaled in the applicator whereby a vibratory effect may be produced, a tube connected to the stem having a stop-cock therein, and a bulb
25 on the tube for inflating the bag.

5. A massage and vibratory apparatus comprising a hollow applicator, flexible at one end, a bag connected to the flexible end of the applicator, a hollow stem journaled in
30 the applicator whereby the vibratory effect

may be produced, and means connected to the stem for inflating the bag.

6. A massage and vibratory apparatus, comprising an applicator, solid at one end and counter-bored throughout its remaining 35 length, and a hollow stem inserted in one end of the bore, a tube connected to the stem having a stop-cock therein, a rubber bulb on said tube, and a screw attachment on the outer end of the stem adapted to receive a 40 vibrating instrument.

7. A massage and vibratory apparatus, comprising an applicator, solid at one end and counter-bored throughout its remaining 45 length, and a hollow stem inserted in one end of the bore, a tube connected to the stem having a stop-cock therein, and a rubber bulb on said tube, said applicator having openings from the bore to the surface for the passage of air and a rubber bag fitted over 50 the solid end of the applicator, said bag secured to the applicator at a suitable distance from the solid end.

In testimony whereof I affix my signature in presence of two witnesses.

HARVEY H. ROBERTS.

Witnesses:

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C. L. WHEELER.