

No. 761,029.

PATENTED MAY 24, 1904.

F. H. BROWN.
APPARATUS FOR THERAPEUTICAL PURPOSES.

APPLICATION FILED MAR. 28, 1904.

NO MODEL.

Fig. 1.

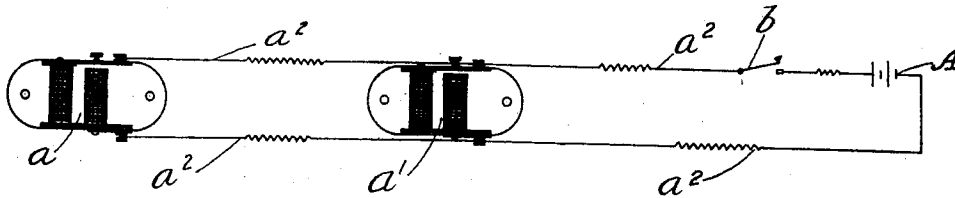
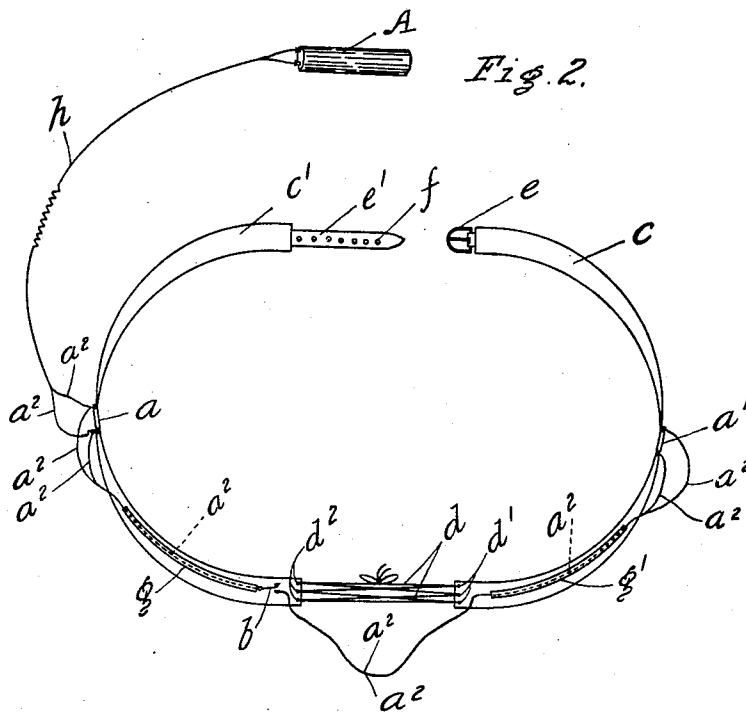


Fig. 2.



WITNESSES

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APPARATUS FOR THERAPEUTICAL PURPOSES.

SPECIFICATION forming part of Letters Patent No. 761,029, dated May 24, 1904.

Application filed March 28, 1904. Serial No. 200,456. (No model.)

To all whom it may concern:

Be it known that I, FRED HARVEY BROWN, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, have invented and discovered a new and useful Apparatus for Therapeutic Purposes, which I denominate a "Harmonic Vibratory Belt," of which the following is a specification.

This invention relates to apparatus for applying mechanical and harmonic vibrations to the human body.

Some of the objects of the invention are to provide an apparatus of simple construction and arrangement of its parts by which it can be constructed and sold at a much lower price than is possible in my previous devices, as shown in my Patent No. 738,403, dated September 8, 1903.

Another object is to construct a device which will be more portable, more easily applied, and one that can be carried on the person under the clothing during the day while attending to business without discommoding the wearer, which was not the case in the devices shown in the previous patent described.

Another object is to set up harmonic vibrations inside of the body by the direct application of two vibrators tuned to a musical pitch placed in close contact with the body or apparel.

The invention consists, substantially, in the construction, combination, location, and relative arrangements of its parts, as will be more fully and hereinafter particularly described, and shown in the accompanying drawings.

I attain these objects by devices illustrated in the drawings, in which—

Figure 1 is a plan of the vibrators and their connections with the battery, showing the manner of connecting up the two vibrators with the battery. Fig. 2 is a perspective view of the apparatus complete, ready to be applied to the body.

Referring to Fig. 1, A is the battery or source of electrical energy. a and a' are the vibrators. $a^2 a^2 a^2 a^2$ are the connecting wires, which show the method of connecting the vibrators in multiple with the battery. b is a switch adapted to open and close the circuit.

Referring to Fig. 2, c and c' are the segments or sections of a belt adapted to encircle any portion of the body or limbs. These sections can be made in one continuous piece, if desired, of sufficient length to surround or encompass any portion of the body. For convenience of adjustment, however, I prefer to construct them in segments, as shown in Fig. 2. d is a cord, made of elastic material, adapted to be passed through the eyelet-holes d' and d'' . These eyelet-holes are inserted in two opposite ends of the belt and are adapted to be drawn together or separated by drawing up or shortening the elastic d or d' . The belt proper may be made of buckskin, elastic webbing, or any other suitable material. e is a buckle attached to one end of the belt. e' is a tongue, made of leather or other suitable material, with eyelet-holes f , adapted to be inserted in the buckle and vary the length of belt. g and g' are two coverings, made of cloth or other suitable material, sewed on or attached to the belt. They are adapted to receive and contain the two wires a^2 as they pass around the belt, and thus prevent the wires from entanglement.

The two $a^2 a^2$ wires h , which connect the battery to the first vibrator, as in Fig. 2, can be a double conductor, such as a telephone-receiver cord. In fact, all of the cords or conductors I prefer to use in the shape of a double-covered conductor.

In practice I prefer to use as vibrators what are known commercially as the "Lungen buzzer," as they are nicely made, adjustable, and give off a fine musical pitch. In constructing the belts each pair of buzzers are attuned to each other, so that when connected in multiple with a battery pronounced harmonics will be set up. In thus tuning them the harmonics will be more pronounced when the two buzzers are pressed against a resonant body, such as a table or other large wooden body.

It is obvious that many variations and changes in the details of construction and arrangement of parts would readily suggest themselves to persons skilled in the art and still be within the spirit and scope of my invention.

I do not desire to confine this invention to the specific construction, combination, and arrangement of parts herein shown and described, and the right is reserved to make all
5 changes in and modifications of the same as come within the spirit of this invention.

The operation of this invention will be readily understood from the foregoing description when taken in connection with the accompanying
10 drawings.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a therapeutical apparatus, a belt having two or more electrically-energized vibrators, relatively attuned, so as to give off harmonics in the body when placed in contact therewith, as shown and described.
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2. In a therapeutical apparatus, a belt having two vibrators or buzzers attached thereto and adapted to set up harmonic overtones, in combination with suitable means for imparting said vibrations and harmonics to the human body, when placed in vibratory contact therewith.
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3. In a therapeutical apparatus, the combi-
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nation of a belt adapted to be adjusted to the body, two relatively-attuned vibrators forming part thereof and a source of electrical energy, in circuit with said vibrators, as shown and described.

4. In a therapeutical apparatus, a belt made as a whole, or in segments, with two vibrators forming part thereof, a source of electrical energy in circuit with the vibrators and adapted to cause the human organism to vibrate in
30 harmony, when said vibrators are placed in vibratory contact therewith, as shown and described.

5. In a therapeutical apparatus, a belt adapted to surround the body, or any part thereof, two vibrators adapted to give off overtones, with suitable means for adjusting same to contact with any part of the body and impart mechanical and harmonic vibrations to the body when attached thereto.
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FRED HARVEY BROWN.

Witnesses:

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A. J. AVESELL.