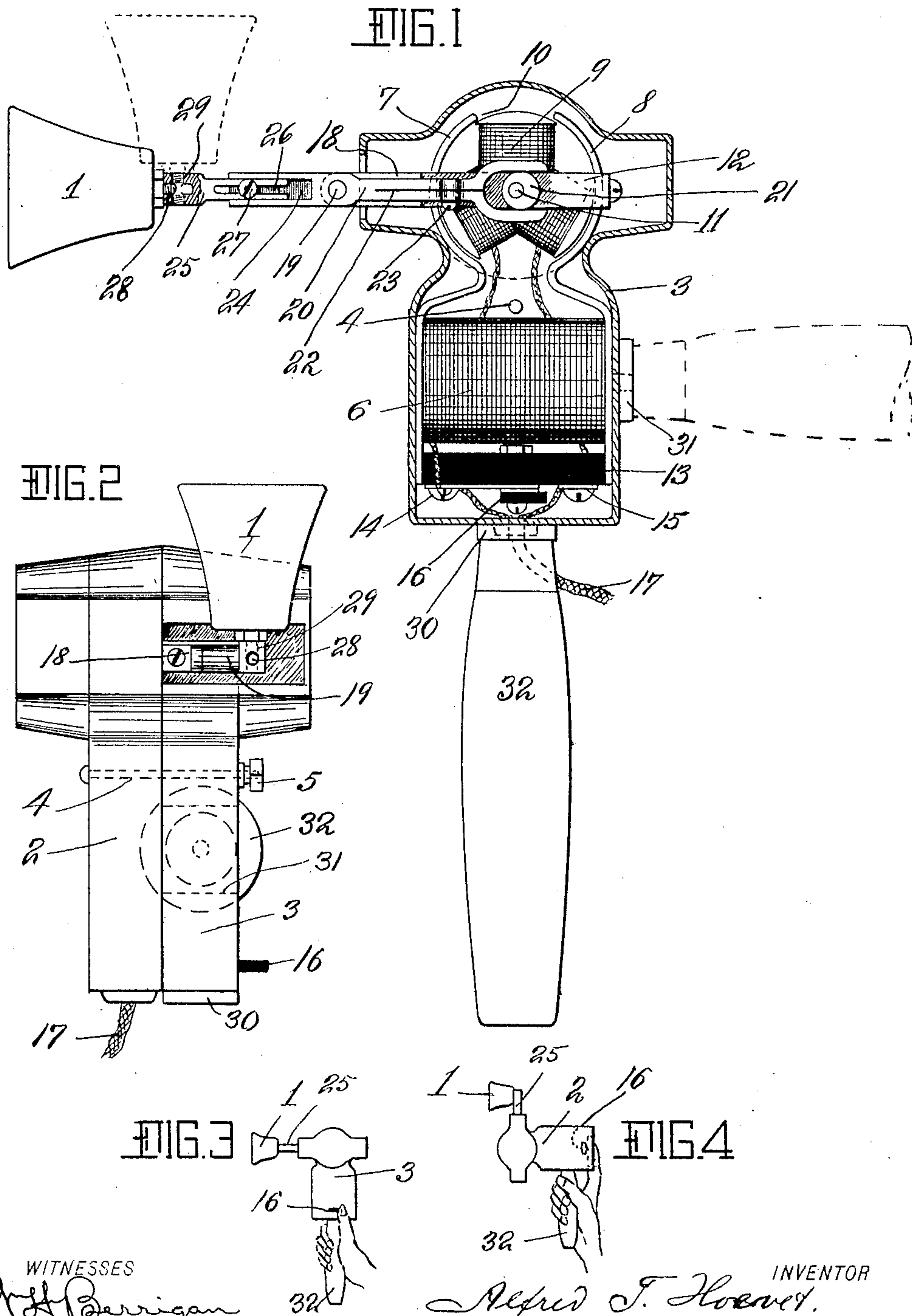


No. 887,328.

PATENTED MAY 12, 1908.

A. T. HOEVET.  
ELECTRIC VIBRATING MASSAGE MACHINE.  
APPLICATION FILED AUG. 11, 1906.



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# UNITED STATES PATENT OFFICE.

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## ELECTRIC VIBRATING MASSAGE-MACHINE.

No. 887,328.

Specification of Letters Patent.

Patented May 12, 1908.

Application filed August 11, 1906. Serial No. 330,122.

*To all whom it may concern:*

Be it known that I, ALFRED T. HOEVET, a citizen of the United States of America, and a resident of city, county, and State of New York, have invented certain new and useful Improvements in Electric Vibrating Massage-Machines, of which the following is a specification.

The present invention relates to electric vibrating massage machines, in which an attachment or appliance, usually of rubber, is vibrated to give the particular kind of massage desired.

This appliance, which for convenience's sake hereinafter will be called the vibrator, is generally actuated to give either a "kneading" or "rubbing" blow or motion or to give short quick blows to the flesh and thus massage it, and machines for giving either the one or the other kind of massage are known in the art.

Now, one of the objects of this invention is to provide a machine, adapted to give at least the two kinds of massage, and further objects is to generally improve the arrangement and construction so as to make the machine light of weight and easily operated by one hand only.

Hence, my invention consists in such arrangements of elements and construction of parts as will hereinafter appear, and as changes may occur in the construction shown, I wish it distinctly understood that I consider myself entitled to all such changes as may come within the spirit of my invention and the scope of the claims.

The detailed construction is set forth in the following specification and the accompanying drawing in which:

Figure 1 is a side view of a massage machine embodying my invention with parts in section. Fig. 2 is an end view of Fig. 1. Fig. 3 and 4 are diagrammatic views showing the different forms in which my invention may be used.

The machine consists broadly speaking of two parts, the vibrator, and its actuating mechanism.

The vibrator is designated by the numeral 1 and is generally made of rubber and in any suitable form, and may be purchased in the open market.

The actuating mechanism comprises a motor, suitably mounted in a casing and connected to the vibrator.

I construct my casing in two parts, 2 and 3,

and in one of these parts I lay the motor with its connections, while the other part acts as a cover. A bolt 4 fast on the part 2 projects through to the outside of the part 3 and the two parts are secured together by the nut 5.

The motor is made of a size to fit snugly in the casing and comprises the field coil 6, pole pieces 7 and 8 inclosing the armature 9. It will be noted that I cut away a portion of the field as at 10, thus having a so called open end field with its advantages as to speed etc. of the motor. I believe this is a new feature in machines of this kind. The armature shaft 11 is journaled in the yoke 12 of brass or other suitable material, and on the said yoke are also mounted the brushes located at the opposite end of the motor from that shown in the drawing. The brushes, commutator, etc. is not shown as these elements form no part of the invention but are of any usual and convenient construction.

Below the field coil, the pole pieces are joined by the brace 13 of suitable insulating material on which are mounted the terminals 14 and 15 and switch 16 by means of which the current is turned on. The current is transmitted from any suitable source of supply through the main line 17.

18 indicates a bracket on the yoke 12 and on the said bracket is pivoted at 19 a lever 20, whose end is bifurcated and which receives an oscillating motion from the eccentric 21 on the armature shaft 11. In order to take up for wear the lever is split as at 22 and provided with a set screw 23. The other end of the lever is countersunk as at 24 and supports the extension 25 adjustably mounted on the lever by means of slot 26 and screw 27.

In order to provide for the different kinds of massage by the vibrator, I provide a plurality of sockets, in this instance two, in the extension 25 and designated 28 and 29 respectively. By screwing the vibrator in the socket 28 as shown in the drawing in full lines the action of the same is a "kneading" or "rubbing" stroke or blow. By screwing the vibrator in the socket 29, which is preferably drilled at right angles to the socket 28, the action of the vibrator results in what is called the hammering stroke. I believe this feature of getting two distinct kinds of massage from one machine to be broadly new.

In order to operate the machine by one hand and to quickly change from one kind of



massage to the other, I provide two bosses, on the casing 30 and 31 and at right angles into which the handle 32 is screwed according to which kind of massage is desired.

5 The relative positions of the vibrator and the handle for the one or the other kind of massage is clearly shown in Fig. 1 in full and dotted lines and further illustrated in Fig. 3  
10 and 4 which also show, that it is possible to operate the machine by one hand and at the same time open or close the switch by a pressure of the thumb or forefinger according to the position of the vibrator. This I believe is also broadly new.

15 From the above it will be understood, that two different kinds of massage may be given with my machine, that the machine may be operated by one hand only, and that different strokes in either direction may be obtained  
20 by means of the adjustable extension 25.

The words "stroke" or "blow" in the claims are to be construed to cover the action of the vibrator, which latter form is used to designate any attachment or appliance used  
25 in the art of massaging.

What is claimed is:

1. A massage machine comprising a casing composed of two symmetrical halves, a motor within said casing, a vibrator, means for  
30 driving the latter from said motor, the said means comprising a pivoted lever, an adjustable extension on said lever, having sockets at right angles for the fastening of said vibrator, one of said sockets being drilled at  
35 right angles to the axis of the armature shaft

of said motor, a plurality of bosses on said casing at right angles to one another, a single handle adapted to be fastened to either of said bosses and a switch, the handle of which projects through the said casing in such a position that the switch may be operated by the hand holding the machine. 40

2. A massage machine comprising a vibrator, a motor for driving the same, the two part casing inclosing said vibrator, which latter is adapted to be adjusted into two different positions, means for adjusting the distance between said vibrator and said motor, a handle, means for changing the position of said handle, a switch for starting and stopping said motor, the handle of said switch projecting through said casing in such a position, that the switch may be operated by the hand holding the machine independently of the position of the first mentioned handle. 55

3. A massage machine comprising a vibrator, a motor, a casing for said motor, a handle, means for changing the position of said handle and said vibrator, a switch for starting and stopping said motor, and means  
60 for operating said switch by the hand holding the machine irrespective of the position of the said handle.

Signed at New York city, N. Y., this 10th day of August, 1906.

ALFRED T. HOEVET.

Witnesses:

IVAN E. A. KONIGSBERG,  
DAVID GRANT.