C. M. SIEBERT, JR.

CUP OR HEAD FOR MASSAGE DEVICES.

APPLICATION FILED AUG. 3, 1909.

961,033.

Patented June 7, 1910.

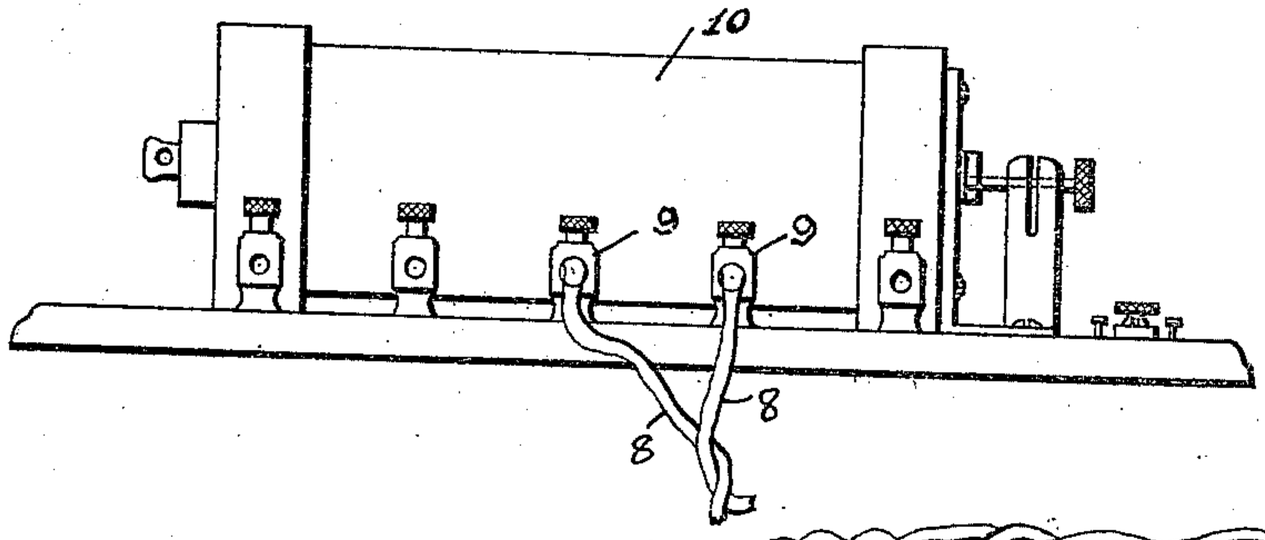


Fig 1

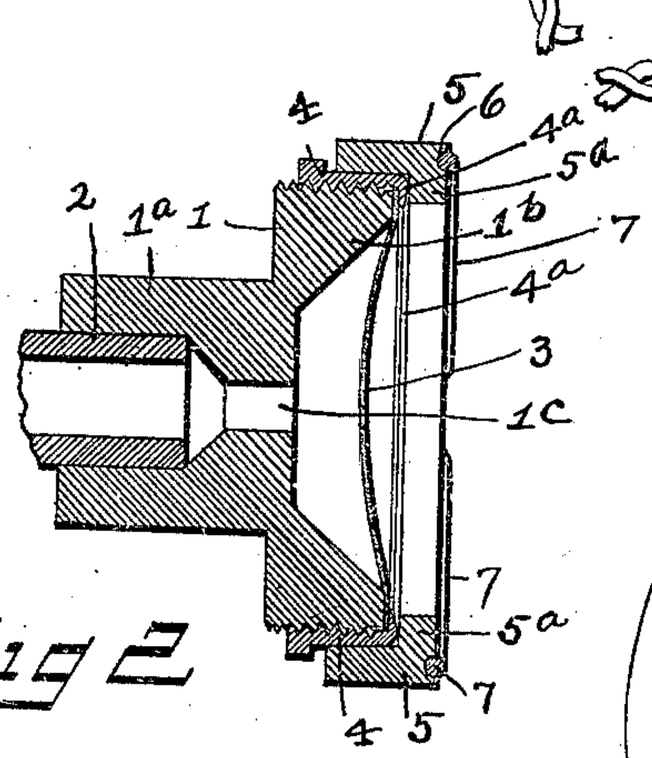
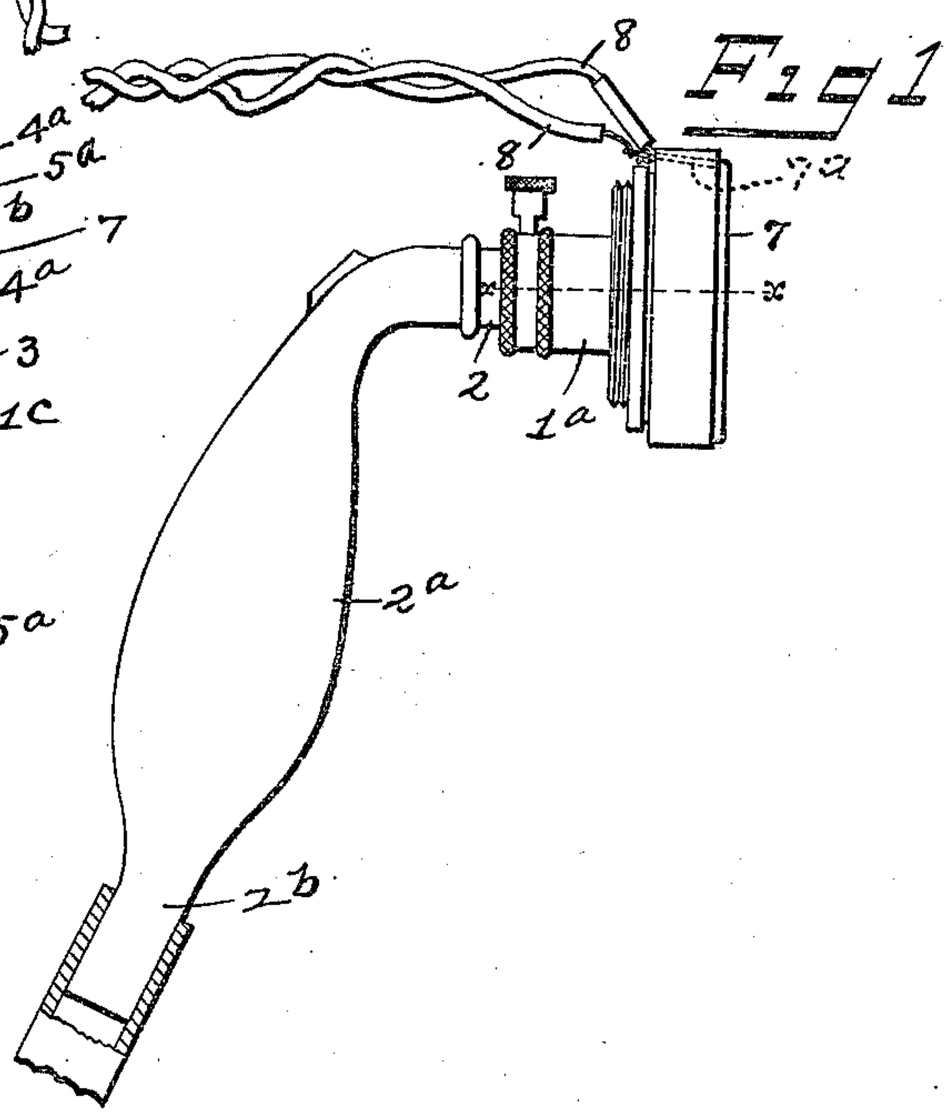


Fig 2



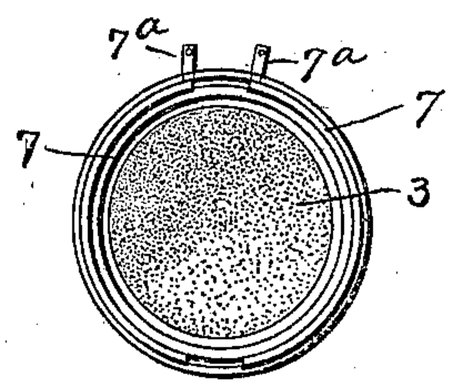


Fig 3

Witnesses

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UNITED STATES PATENT OFFICE.

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CUP OR HEAD FOR MASSAGE DEVICES.

961,033. Specification of Letters Patent. Patented June 7, 1910.

Application filed August 3, 1909. Serial No. 510,959.

To all whom it may concern:

Be it known that I, CHARLES M. SIEBERT, Jr., a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Cups or Heads for Massage Devices, of which the following is a specification.

My invention relates to the improvement of cups or heads for massage devices and has particular relation to cups of the class shown and described in my former Patent No. 893,021 of July 14, 1908, in which an interrupted air current is used to produce the desired vibratory action on the skin.

The objects of my present invention are to provide an improved cup or massage head of this class with means for imparting to the skin of the patient, not only the vibratory or massage action of the yielding disk, but for subjecting the surface of the body operated upon, to the action of an electric current and to produce certain improvements in details of construction and arrangement of parts which will be more fully pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawing, in which:

Figure 1 is a side elevation of my improved cup and air connections, showing in connection therewith an electric battery, Fig. 2 is an enlarged sectional view of the cup, such view being taken on line *x*—*x* of Fig. 1, and, Fig. 3 is a face view of the cup shown in Fig. 1.

Similar numerals refer to similar parts throughout the several views.

In carrying out my invention, I employ as described in my said former patent, a cup body 1 formed of suitable material, said cup body comprising a straight tubular shank portion 1^a and an enlarged circular head portion 1^b, the latter having its periphery threaded, as shown. The stem or shank 1^a of the cup has formed therethrough a central passage 1^c, the outer portion of which is enlarged to form a socket for the reception of the air conducting tubular termination 2 of a hollow handle member 2^a, the outer end of the latter having a reduced tubular termination 2^b. Against the outer marginal face of the cup 1 is secured the marginal portion of a yielding disk 3 of comparatively thin rubber or other similar material, said disk being thus made to cover the flaring mouth of the cup. The disk is held in this position through the medium of an internally threaded collar 4, which engages the peripheral threads of the cup body and which has its outer portion formed with a circular inturned flange 4^a between which and the marginal face of the cup head, the outer portion of the disk 3 is clamped. Upon this clamping collar 4 is detachably fitted a ring 5, which may be of fiber, hard rubber or other non-conducting material. This ring is formed in its outer portion with an inturned flange 5^a and in its outer face the ring 5 is formed with a continuous circular recess or groove 6. Within this groove lie two curved wire members or contact segments 7, these contact members being of such length as to result in the formation of spaces between their ends. Two adjacent ends of the contact members 7 which are indicated at 7^a, are passed rearwardly through the body of the ring 5 where they are connected respectively with wires 8, these wires leading to binding posts 9 of an electric battery coil 10 of any ordinary or usual construction.

In the operation of the class of massaging devices to which my invention particularly applies, an air pump and controlling mechanism is employed, by means of which air is alternately ejected through the tubular handle 2^a and into the cup and withdrawn therefrom, this operation being sufficiently rapid to result in a rapid inward and forward or vibratory motion of the flexible disk 3. Owing to this vibratory action of the disk 3, it is obvious that when the face of the cup herein described, is pressed into contact with the surface to be massaged, the skin of the person being operated upon, is subjected to the rapid vibratory action of the disk. In addition to this vibratory massage, it will be observed that the contact of the members 7 and 8 with the skin of the patient, will result in closing an electric circuit through said electrically charged contact member 7 and in the body of the patient being thus subjected to the application of an electric current. From this operation, it will readily be understood that by the use of my device, the patient may simultaneously receive both the massaging effect of the vibrating disk and the effect imparted from an electric current.

From the foregoing description, it will be

seen that simple and efficient means are herein provided for accomplishing the objects of the invention, but while the elements shown and described are well adapted to serve the purposes for which they are intended, it is to be understood that the invention is not limited to the precise constructon set forth, but includes within its purview such changes as may be made within the scope of the appended claim.

What I claim, is:

In a device of the character described, the combination with a massage cup, comprising a body portion, a clamping member and a flexible diaphragm clamped between said body portion and said clamping member, of a separate insulating ring member which slips down over said clamping member, a pair of segmental contact plates separated from each other and embedded in said insulating ring, and current conducting members leading through said ring from the rear face thereof to said contact plates.

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

CHARLES M. SIEBERT, JR.

Witnesses:

A. L. PHELPS,

L. CARL STOUGHTON.