

C. A. PETERSON.
VIBRATORY DEVICE.
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1,082,285.

Patented Dec. 23, 1913.

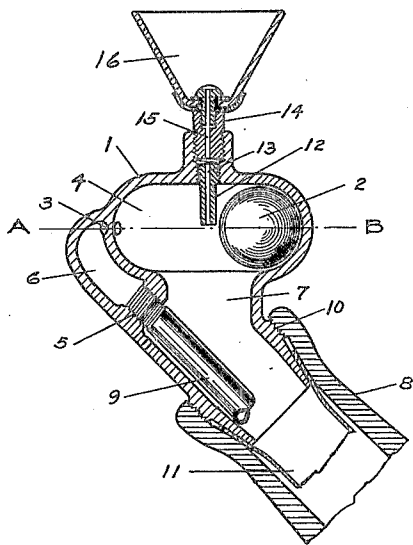


FIG. 1.

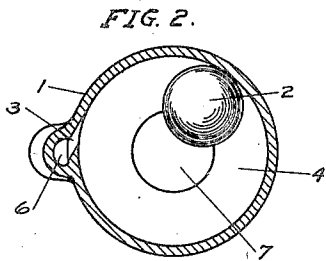


FIG. 2.

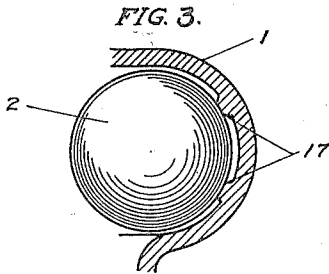


FIG. 3.

Witnesses

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VIBRATORY DEVICE.

1,082,285.

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To all whom it may concern:

Be it known that I, CLARENCE A. PETERSON, a citizen of the United States, residing at Washington, District of Columbia, have
5 invented certain new and useful Improvements in Vibratory Devices, of which the following is a specification.

My invention relates to improvements in vibratory devices, particularly adapted for
10 massage vibrators but also adaptable to any use requiring a vibratory motion.

In the accompanying drawing, illustrating the preferred embodiments of the invention, similar reference characters indicate similar parts. In said drawing, the
15 vibratory device is shown adapted for use as a massage vibrator.

Any suitable source of energy may be used for imparting motion to this vibratory device, the one selected for illustration involving the use of a stream of fluid.

Figure 1 shows a sectional view of the vibrator, Fig. 2 shows a sectional view on the line A—B of Fig. 1. Fig. 3 shows a
25 sectional detail of Fig. 1 slightly modified, and drawn to an enlarged scale.

Referring to Fig. 1 of the drawing, 1 indicates a casing or container inclosing the member 2 which travels around the periphery of cavity 4. The inlet pipe, indicated at 9, communicates with the passage 6 by the connection 5. From said passage an orifice 3 leads into the cavity 4. From an inspection of Fig. 2 it may be seen that said
35 orifice is in a tangential line at a point on the periphery of cavity 4. At the center of the cavity 4, an outlet passage 7 is provided which communicates with the outlet pipe 11. In this form the outlet pipe 11 incloses the inlet pipe 9. Over said pipes a handle 8 is fitted. Said handle engages the casing 1 as shown at 10. A pin 12 projects into the cavity 4 directly opposite the outlet passage 7 to prevent same from being closed by
45 said moving member 2 when not in operation. At a suitable place on the casing an applicator is detachably secured. This applicator, which may be of any well known type, is shown at 16 secured to the casing 1
50 by the stud 14. Having described this form of my invention in detail, the operation is as follows: A fluid is forced under pressure through the orifice 3 in a line tangent to the periphery of the cavity 4, thereby causing a rapid rotation of the fluid therein contained. This revolving fluid carries with it

the moving member 2. The centrifugal forces thereby developed cause the member 2 as well as the revolving fluid to bear against the periphery of the cavity 4. The waste fluid passes through the outlet passage 7 and into the waste pipe 11. The rapidly revolving member gives a vibratory motion to the case which transmits the same to the applicator 16.

In the modified form shown in Fig. 3, two ribs 17 are provided on the inside of the casing 1 for the purpose of furnishing a definite path for the moving member 2.

I claim:

1. A vibratory massage device comprising a casing, an unattached member adapted to travel bodily around the periphery of said casing, and means whereby motion may be imparted to said member.

2. A vibratory massage device comprising a casing having a cavity and inlet and outlet passages communicating therewith, said inlet passage arranged substantially tangential to the periphery of said cavity, and a member adapted to travel bodily along the periphery of said cavity.

3. A vibratory massage device comprising a casing having a cavity and inlet and outlet passages communicating therewith, a member adapted to travel around the periphery of said cavity and a projection extending into said cavity.

4. A vibratory massage device comprising a casing having a cavity and inlet and outlet passages communicating therewith, a member adapted to travel bodily around the periphery of said casing and means for defining the path of said member.

5. A vibratory massage device comprising a casing having a cavity and inlet and outlet passages communicating therewith, said inlet passage arranged substantially tangential to the periphery of said cavity, a member adapted to travel bodily along the periphery of said cavity and said outlet passage arranged essentially at right angles to said inlet passage.

6. A vibratory massage device comprising a casing provided with a curved guideway, an unattached bodily movable member adapted to contact with the periphery of said guideway, and suitable means whereby motion may be imparted to said member.

7. A vibratory massage device comprising a casing provided with an internal curved guideway, and inlet and outlet passages com-

municating therewith, a member adapted to bodily travel in said curved guideway, and impart vibratory movements to said casing.

8. A vibratory massage device comprising a container, an unattached bodily movable member adapted to travel along, and impinge upon, the inner periphery of said container, the inner periphery of said container being materially greater than the periphery of said member, and means whereby motion may be imparted to said member.

9. A vibratory massage device comprising a container, an unattached bodily movable, eccentrically arranged member adapted to travel along, and impinge upon, the inner periphery of said container, and means whereby motion may be imparted to said member.

10. A vibratory massage device comprising a container, an unattached bodily movable member eccentrically arranged within said container, and means whereby motion may be imparted to said member.

11. A vibratory massage device comprising a container, an unattached eccentrically arranged member within said container adapted for motion of translation and rotation, and means whereby motion may be imparted to said member, thereby imparting vibratory movements to said container.

12. A vibratory massage device comprising a casing having a tangential inlet and a central outlet passage, inlet and outlet pipes communicating with said inlet and outlet passages respectively, said outlet pipe surrounding said inlet pipe, a member

adapted to travel bodily along the inner periphery of said casing, said casing having means for retaining the bodily movable member therein when said member is at rest.

13. A vibratory massage device comprising a casing having a tangential inlet and a central outlet passage, inlet and outlet pipes communicating with said inlet and outlet passages respectively, said outlet pipe surrounding said inlet pipe, parallel ridges projecting into said casing, a member adapted to travel bodily along said ridges, said casing having means for retaining the bodily movable member therein when said member is at rest.

14. A vibratory massage device comprising a casing having a tangential inlet and a central outlet passage, inlet and outlet pipes communicating with said inlet and outlet passages respectively, said outlet pipe surrounding said inlet pipe and a member adapted to travel bodily along the inner periphery of said casing.

15. A vibratory massage device comprising a casing having inlet and outlet passages, parallel ridges projecting into said casing and a member adapted to travel bodily along said ridges.

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

CLARENCE A. PETERSON.

Witnesses:

W. B. SADLER,

DANIEL F. GARRETTSON.