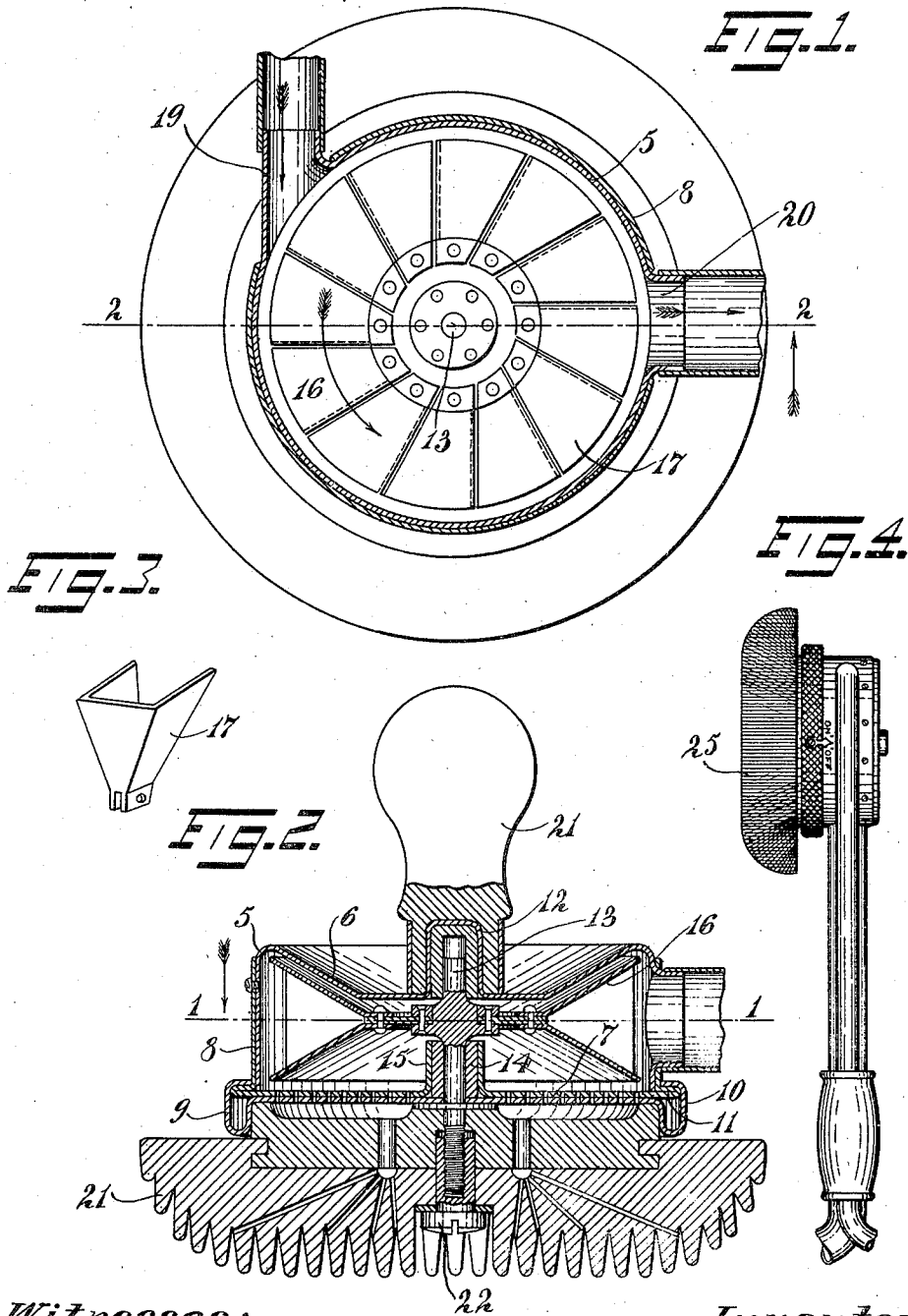


J. G. F. REUTER.  
 SPRAY VIBRATOR.  
 APPLICATION FILED JUNE 6, 1910.

1,038,656.

Patented Sept. 17, 1912.



Witnesses:

L. C. Bodeau.  
 H. D. Peuney

Inventor:

Jean G. F. Reuter,

By his Attorney, F. H. Richards

# UNITED STATES PATENT OFFICE.

JEAN G. F. REUTER, OF WATERBURY, CONNECTICUT.

## SPRAY-VIBRATOR.

1,038,656.

Specification of Letters Patent.

Patented Sept. 17, 1912.

Application filed June 8, 1910. Serial No. 565,365.

*To all whom it may concern:*

Be it known that I, JEAN G. F. REUTER, a citizen of the United States, residing in Waterbury, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Spray-Vibrators, of which the following is a specification.

The object of this invention is to provide a rotary massage device that can be conveniently used in connection with a bath by employing the water pressure to actuate the device and at the same time provide wet massage by allowing some of the water used to drive the device to pass through the massage member or produce a spray.

In the accompanying drawing representing embodiments of my invention, Figure 1 is a section on line 1—1 of Fig. 2. Fig. 2 is a section on the line 2—2 of Fig. 1. Fig. 3 shows one of the vanes or buckets of the motor; and Fig. 4 shows a modification.

The device is shown as comprising a somewhat drum-shaped casing member 5 comprising a side member 6 at one side, and a disk member 7 at the opposite side having a flange portion 8 that forms the peripheral part of the casing. The disk portion 7 is provided with numerous perforations. A disk 9 is suitably attached adjacent the disk portion 7 and is correspondingly perforated. This disk has a bent flange portion 10 surrounding the projecting flange portion 11 of the disk 7 whereby it is held in position. By swinging this disk 9 relative to the disk 7 the perforations may be made to register or to close each other, whereby the outlet from the chamber through these holes is controlled at will. The disk portion 6 has a socket portion 12 forming a bearing for a shaft 13, whose other end has a bearing in a journal portion 14 supported by a bent socket portion 15 of the disk member 7. This shaft carries a motor in the nature of a turbine, denoted generally by 16 shown as comprising a series of buckets 17, which buckets do not extend to the periphery or to the sides of the chamber, but leave a small space therein whereby the water may find access to the perforated side member 7. The chamber is provided with a tangential inlet 19 whereby water is admitted to engage the

buckets and cause rotation of the shaft. A suitable outlet 20 is provided for the water that has acted upon the buckets. A handle 55 may be attached to the member by being secured to the casing around the socket portion 12 thereof. The shaft 13 projects through the disk members 7 and 9 and carries a massage member that will serve to 60 produce an effective massage, by being rotated from the action of the water on the buckets.

In Fig. 2 is shown a rubber massage member 21 that is removably secured to the shaft 65 by a screw 22. This massage member has passages therethrough permitting the water to pass through the perforated side members to find outlet. By this means it will be seen that the water which serves to rotate 70 the massage member will also serve to produce a wet massage by some of it passing through the massage member. By turning the perforated disk 9 the amount of such water can be controlled; or the water can be 75 cut off entirely from the massage member, and a dry massage obtained. The massage member can be removed and a spray device is provided. In Fig. 4 is shown a similar device in which a brush of bristles 25 is employed instead of the massage member 21.

Having thus described my invention, I claim:

The combination of a casing, a fluid motor rotatable in the casing and provided with a 85 shaft projecting through the casing, an inlet member for the casing arranged to direct fluid against the motor to rotate the same, the casing having passages in one side giving exit to the water after engaging the 90 motor, a massage device carried by the shaft outside of the motor, such device having passages registering with the said outlet passages in the casing during the rotation of the device whereby the water after driv- 95 ing the motor will pass through the massage device during its rotation, and means for regulating the passage of the water from the casing to the massage device.

JEAN G. F. REUTER.

Witnesses:

HOWARD B. SNOW,  
SHERWOOD L. ROWLAND.