

W. G. SHELTON.  
 MASSAGE VIBRATOR.  
 APPLICATION FILED SEPT. 3, 1907.

900,602.

Patented Oct. 6, 1908.

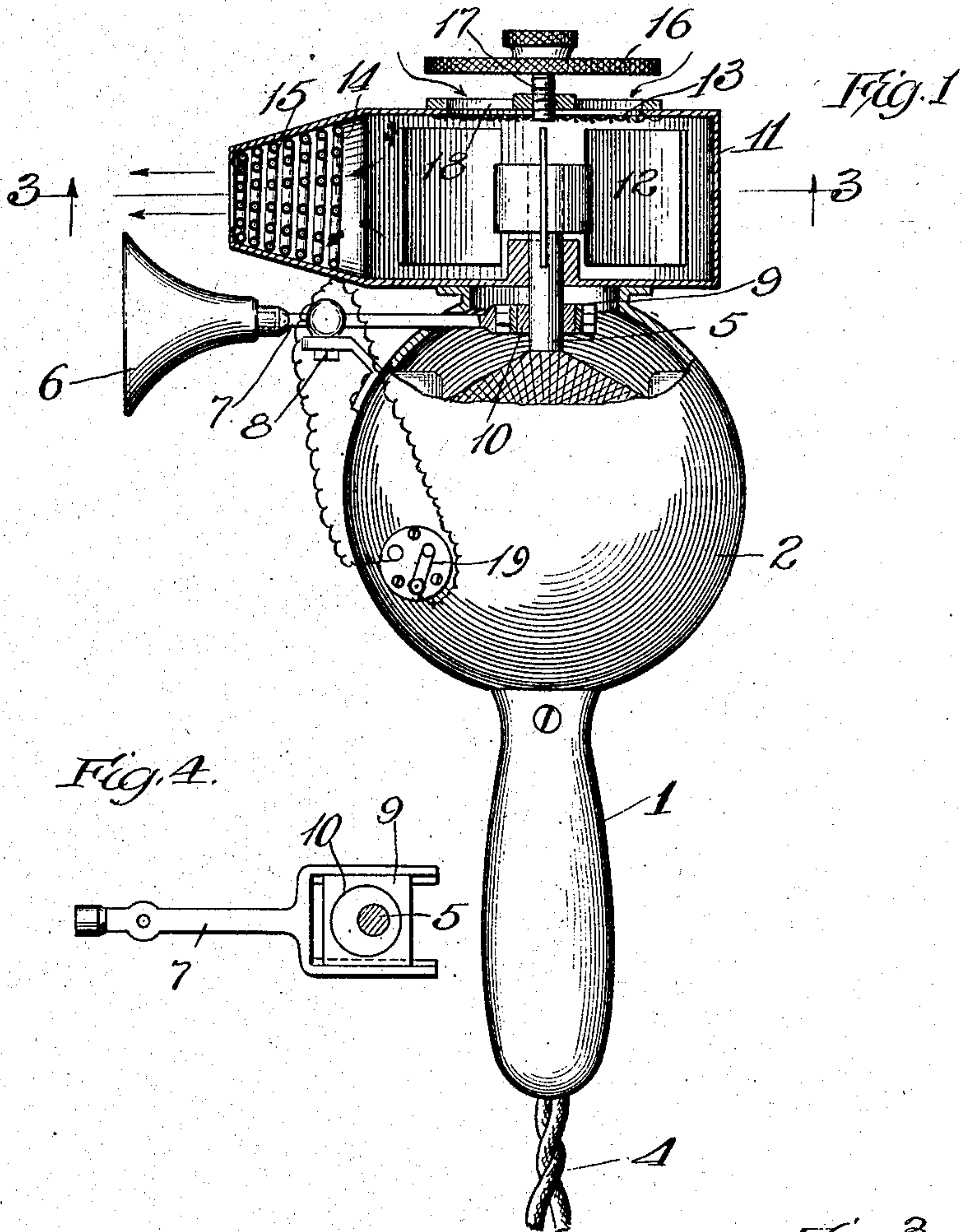


Fig. 4.

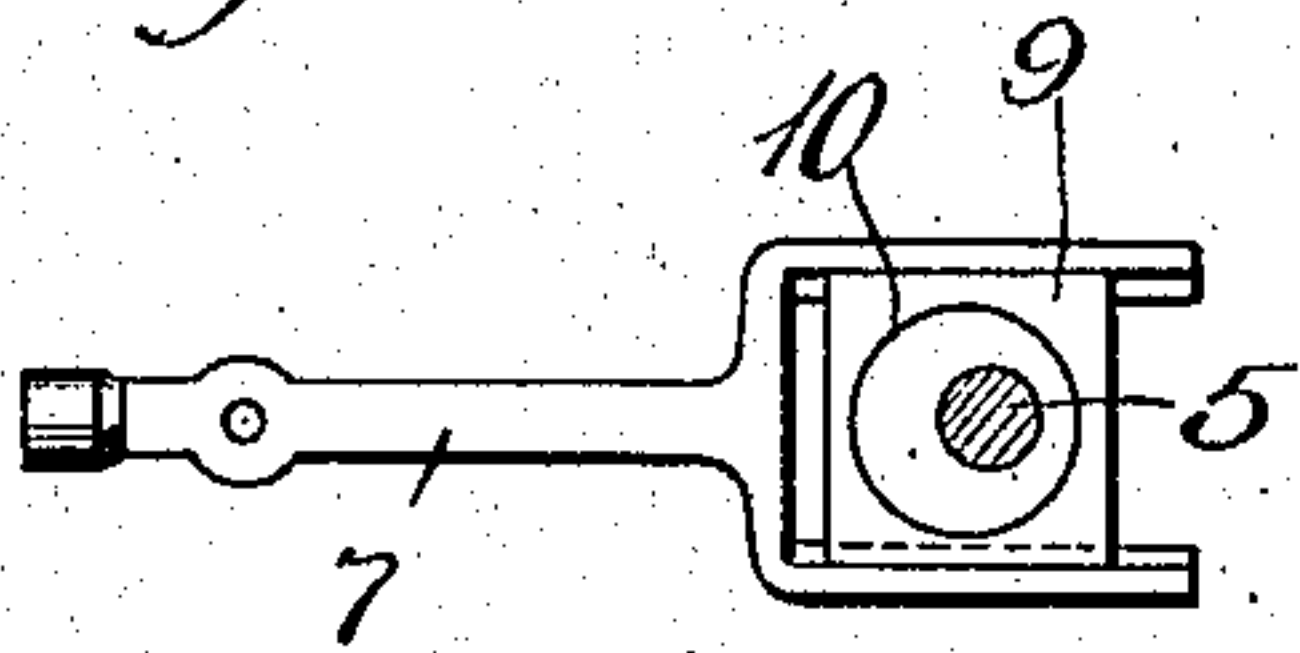


Fig. 2.

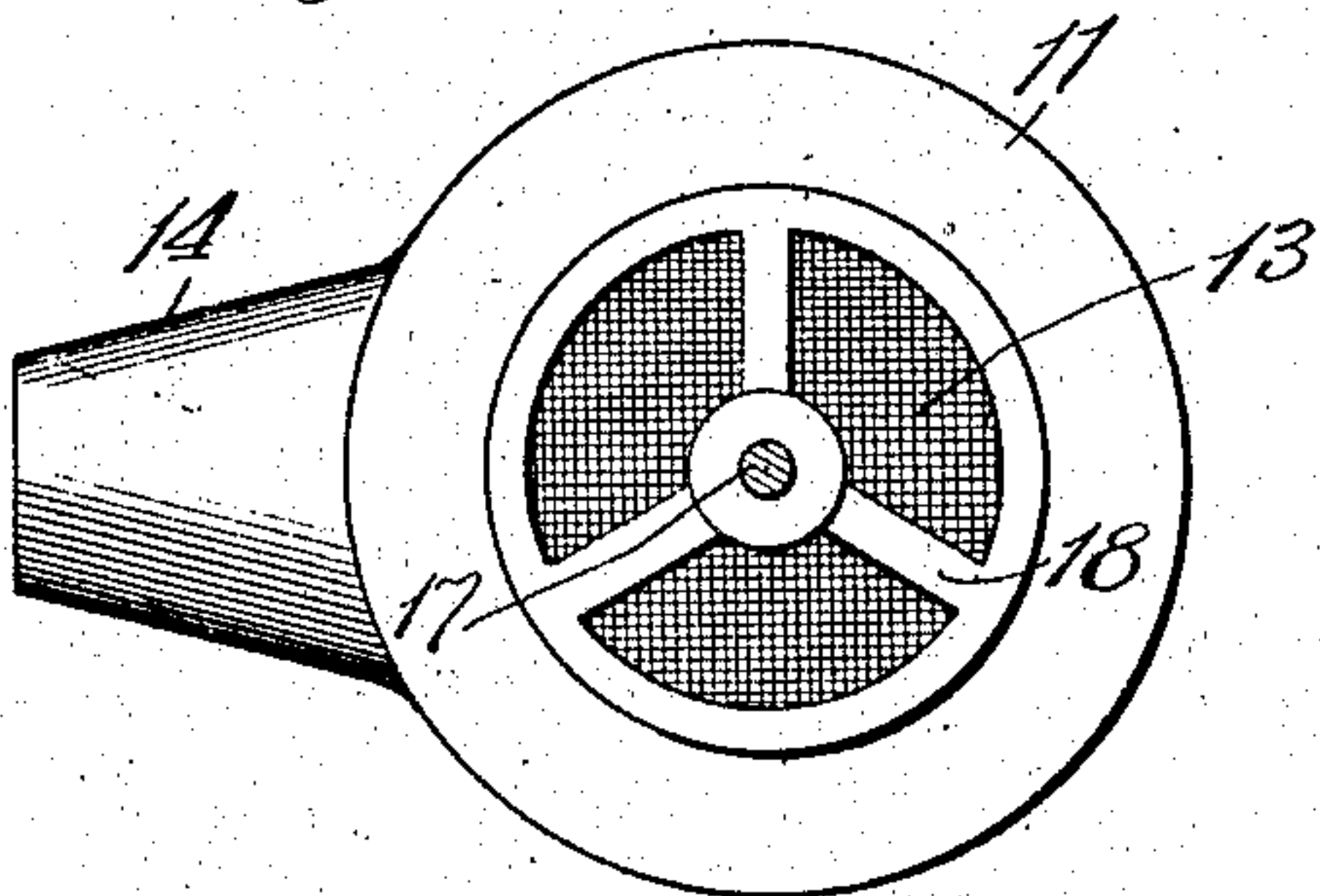
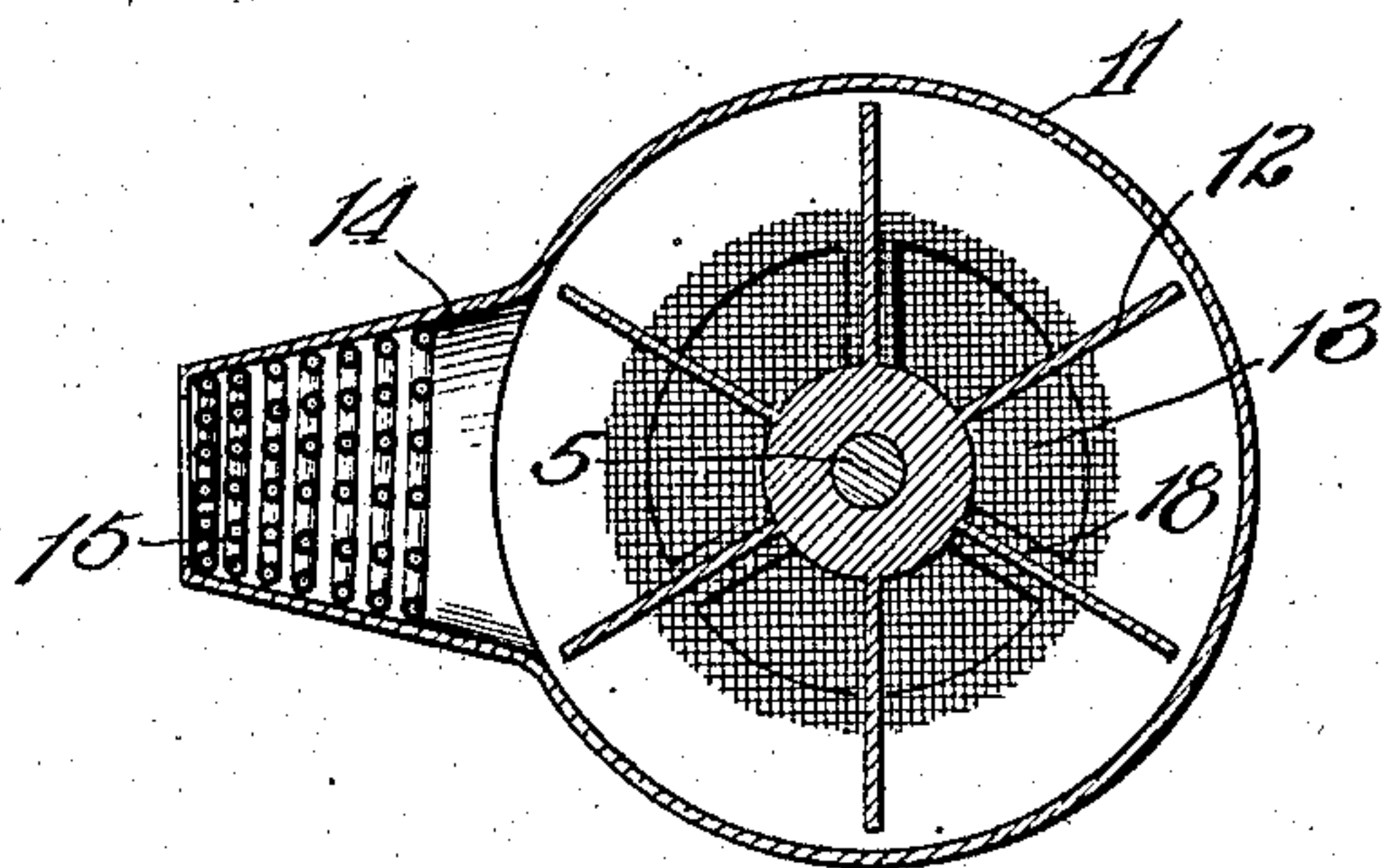


Fig. 3.



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# UNITED STATES PATENT OFFICE.

WILLIAM GENTRY SHELTON, OF CHICAGO, ILLINOIS.

## MESSAGE-VIBRATOR.

No. 900,602.

Specification of Letters Patent.

Patented Oct. 6, 1908.

Application filed September 3, 1907. Serial No. 391,176.

*To all whom it may concern:*

Be it known that I, WILLIAM GENTRY SHELTON, a citizen of the United States of America, and a resident of Chicago, Cook county, Illinois, have invented certain new and useful Improvements in Massage-Vibrators, of which the following is a specification.

The main objects of this invention are to provide an improved form of vibratory massage apparatus provided with means for supplying a blast of tempered air during the operation of the massaging head, and to provide an improved arrangement whereby the speed of such apparatus may be controlled by regulating the air supply. These objects are accomplished by the device shown in the accompanying drawings, in which—

Figure 1 is a side elevation of a massaging apparatus constructed according to this invention, the air blast apparatus being in section and the casing of the motor being partly broken away. Fig. 2 is an end elevation of the blower, with the valve-plate removed. Fig. 3 is a section on the line 3—3 of Fig. 1. Fig. 4 is a detail of the vibrating arm which carries the massaging head, and illustrating the eccentric connection between said arm and the driving shaft of the motor.

In the construction shown in the drawings, the handle 1 is hollow and carries at its end an electric motor 2, which receives its current through a flexible conductor 4 extending longitudinally through the handle. The armature shaft 5 of the motor is disposed in alignment with the handle 1. The massaging head 6 is mounted at the end of the arm 7, which is pivotally mounted at 8 on a bracket on the motor frame. The inner end of the arm 7 is forked and has slidably mounted thereon a cross-head 9 connected by an eccentric 10 with the shaft 5. A blower casing 11 is secured to the motor frame, and the motor shaft 5 extends into said casing and is provided with a series of radiating vanes 12. The blower casing is provided with a screened air inlet 13 and an outlet nozzle 14. The blower is of the centrifugal type, the air being drawn in at the inlet 13 through the rotation of the vanes 12, and being forced out through the nozzle 14. The nozzle 14 is so disposed as to direct the air blast toward a surface upon which the massaging head may be operating. Heating coils 15 are disposed within the nozzle 14 in the path of the air current, and are connected through the switch 19 in shunt with

the windings of the motor, so that said heater may be turned on and off without interfering with the operation of the motor. A valve-plate 16 is mounted across the opening 13, and is adjustable for controlling the inflow of air. The valve-plate 16 is provided with a threaded stem 17 engaging a spider 18 in the opening 13.

The operation of the device shown is as follows: The cord 4 is connected with a suitable source of current, and when the motor is running the arm 7 will oscillate on its pivot 8 and impart a vibratory motion to the head 6. The blower will also operate and direct a blast of air toward the surface upon which the head 6 is operating. If the switch 19 is thrown on, the air blast will be heated by the coil 15, while if the switch 19 is thrown off, unheated air will be delivered. The speed of the motor is controlled by adjusting the plate 16 toward and away from the adjacent face of the casing. When the opening 13 is entirely closed by the plate 16, the air blast will cease and the choking of the air current will reduce the speed of the motor to its minimum. When the opening 13 is wide open, the motor will run at its maximum speed.

The device herein shown is especially adapted for massaging the scalp, the air blast serving to remove dust and dandruff from the hair at the same time that the scalp is being massaged by the vibrating head 6.

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

1. A massaging apparatus, comprising a handle, a massaging head mounted on said handle and adapted to be operated while said head is in contact with a patient's body, mechanism for vibrating said head, a blower mounted on said handle, a nozzle directed so as to blow toward the surface upon which said head is operating, and means for heating the air delivered by said blower.

2. A massaging apparatus, comprising a handle, a massaging head mounted on said handle and adapted to be operated while said head is in contact with a patient's body, mechanism for vibrating said head, a blower mounted on said handle, a nozzle for directing air from said blower toward the surface upon which said head is operating, and heating coils mounted in said nozzle and adapted to heat the air in its passage therethrough.

3. A massaging apparatus, comprising a handle, a massaging head mounted on said



handle and adapted to be operated while said head is in contact with a patient's body, mechanism for vibrating said head, a centrifugal blower mounted on said handle, a nozzle for directing air from said blower, and means for controlling the supply of air to said blower and adapted, through a choking of such air supply, to retard the speed of vibration of said head.

4. The combination of a handle, a massaging head mounted to vibrate on said handle, a motor carried by said handle for operating said head, and a blower driven by said motor and adapted to direct a current of air adjacent to the operating face of said head.

5. The combination of a handle, an electric motor having a rotatable armature mounted on said handle, a massaging head extending transversely with respect to the axis of said armature, and connected therewith so as to vibrate through the rotation of said armature, a centrifugal blower mounted in axial alinement with said armature and rotatable therewith, a nozzle for directing air from said blower adjacent to the operating face of said head, and an electric heater for heating the air during its passage through said nozzle.

6. The combination of a handle, an electric motor having a rotatable armature mounted on said handle, a massaging head extending transversely with respect to the axis of said armature, and connected therewith so as to vibrate through the rotation of said armature, a centrifugal blower mounted in axial alinement with said arma-

ture and rotatable therewith, a nozzle for directing air from said blower adjacent to the operating face of said head, an electric heater for heating the air during its passage through said nozzle, said heater being connected in shunt with the windings of said motor, and a switch controlling said heater and adapted to permit the same to be cut out of the circuit without stopping the operation of the motor.

7. The combination of a handle having thereon a motor, a massaging head adapted to be vibrated through the operation of said motor, a centrifugal blower driven by said motor, having an air inlet at one side and having an air outlet facing toward said massaging head, and a valve-plate mounted at said inlet and adjustable for controlling the inflow of air and thereby controlling the speed of said motor.

8. The combination of a handle having thereon a motor, a massaging head adapted to be vibrated through the operation of said motor, a centrifugal blower driven by said motor, having an air inlet at one side and having an air outlet facing toward said massaging head, and means for controlling the flow of air through said blower and adapted to thereby control the speed of the motor.

Signed at Chicago this 30th day of August 1907.

WILLIAM GENTRY SHELTON.

Witnesses:

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