

No. 838,959.

PATENTED DEC. 18, 1906.

O. C. DE SELMS.
MASSAGE AND MANICURE MACHINE.

APPLICATION FILED MAY 8, 1906.

Fig. 1.

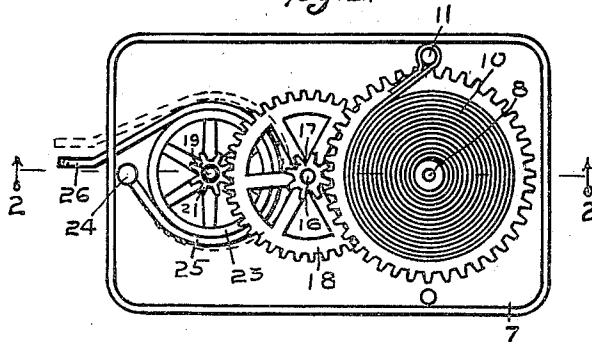


Fig. 2.

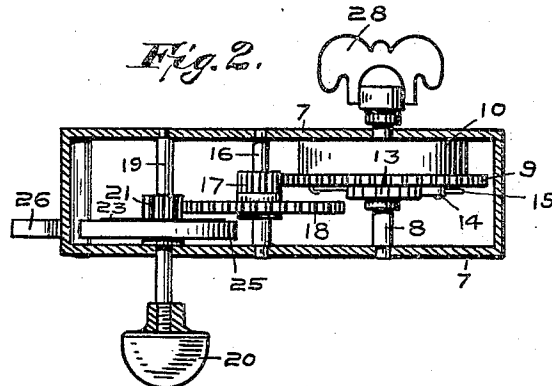


Fig. 3.

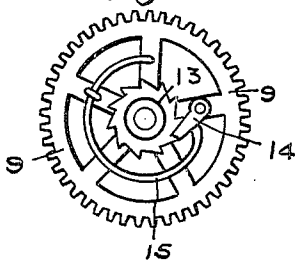


Fig. 4.

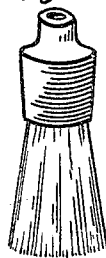
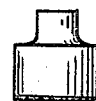


Fig. 5.



Fig. 6.



WITNESSES:
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UNITED STATES PATENT OFFICE.

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MESSAGE AND MANICURE MACHINE.

No. 838,959.

Specification of Letters Patent.

Patented Dec. 18, 1906.

Application filed May 8, 1906. Serial No. 315,766.

To all whom it may concern:

Be it known that I, OMAR C. DE SELMS, a citizen of the United States, residing at Attica, in the county of Fountain and State of Indiana, have invented certain new and useful Improvements in Massage and Manicure Machines, of which the following is a specification.

This invention relates to improvements in motors for operating manicure and massage instruments; and the object of the invention is to provide a spring-operated motor sufficiently compact in size to enable it to be taken in the hand for use.

The object also is to provide a device in which the instruments can be changed to suit the character of the work and to provide a device which will be inexpensive to manufacture, simple, durable, and readily portable.

I accomplish the objects of the invention by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a top view of my invention with the upper side of the case removed to show the interior construction. Fig. 2 is a vertical section on the line 2 2 of Fig. 1. Fig. 3 is a detail showing the opposite side from that shown in Fig. 1 of the toothed wheel having the driving-spring attached thereto. Fig. 4 is a detail representing one of the special tools or instruments which is adapted to be operated by the motor, the tool in this case being a brush. Fig. 5 is a perspective view of another form of tool for administering massage treatment, and Fig. 6 is a view in side elevation of a filing-tool.

Like characters of reference indicate like parts throughout the several views of the drawings.

7 represents the two sides of a frame or casing within which the driving mechanism of my invention is mounted.

8 is the main shaft or spindle of my device, and 9 is a cog-wheel mounted within the casing on the spindle 8.

10 is a coiled spring, the inner end of which is attached to the spindle 8 and the outer end to a post 11.

The wheel 9 is mounted loosely on the spindle 8.

13 is a ratchet-wheel mounted in fixed manner on the spindle 8 adjacent to the cog-wheel 9.

14 is a pawl or dog carried by the cog-wheel 9 and engaging the teeth of the wheel 13.

15 is a spring which presses the dog into engagement with the wheel 13.

16 is a second shaft mounted within the casing 7. Mounted on the shaft 16 is the pinion 17, the teeth of which mesh with the cogs on the wheels 9.

18 is a gear-wheel mounted on the shaft 16.

19 is a third shaft which is mounted in the case 7 parallel with the shafts 8 and 16 and having one of its ends projecting outside of the case and terminating with a screw-threaded portion upon which a tool or instrument 20 is removably secured by screwing it thereon. This instrument 20 may be variously shaped to suit the purposes for which it is to be used, as illustrated in Figs. 2, 4, 5, and 6. Mounted on the shaft 19 is the pinion 21, which meshes with the cogs of the gear-wheel 18. Also mounted on the shaft 19 is the brake-wheel 23.

24 is a post supported by the case 7, and 25 is a band or curved bar of spring metal which is fastened to the post 24 and extends thence around the brake-wheel 23 and terminates outside of the case 7 in the end 26. The normal spring-tension of the bar 25 against the brake-wheel is sufficient to prevent all movement of the wheel, which would be otherwise rotated by the action of the spring 10. The spring 10 is wound by means of the key 28, and when the device is used the case 7 containing the operative mechanism is grasped in the hand of the person who desires to use it with one of the fingers of the hand against the end 26 of the brake-bar 25, and a rotation of the shaft 19 by the action of spring 10 through the train of gears is permitted by a loosening of the bar 25 on the wheel 23 by pressing the end 26 in the direction of the dotted line shown in Fig. 1. The speed of the shaft 19 can be regulated by regulating the friction between the brake-wheel and the bar 25.

Having thus fully described my invention, what I claim as new, and wish to secure by Letters Patent of the United States, is—

1. In a device for the purposes specified, a supporting frame or case, a shaft mounted in said case having an outside projecting end, a brake-wheel and a pinion on said shaft, a tool or instrument removably mounted on the projecting end of said shaft, a spring-driven gear-wheel, a train of gears connecting the last gear-wheel with the pinion on the first-mentioned shaft, a friction means for

controlling the movement of the brake-wheel comprising a curved spring - bar passing around the brake-wheel and a lever therefrom extending outside of the case for regulating the friction.

5 2. In a device for the purposes specified, a supporting frame or case, a shaft mounted in said case and having an outside projecting end, a brake-wheel and a pinion on said shaft, 10 a tool or instrument removably mounted on the projecting end of said shaft, a spring-driven gear-wheel, a train of gears connecting the last gear-wheel with the pinion on the first-mentioned shaft, a post supported by

said frame or case, a curved spring-bar passing around the brake-wheel and holding said wheel from movement by friction, the free end of said bar extending outside of the case to permit the bar to be pressed out of engagement with the brake-wheel so as to regulate 20 the rotation of the tool-carrying shaft.

In witness whereof I have hereunto set my hand and seal, at Indianapolis, Indiana, this 10th day of April, A. D. 1906.

OMAR C. DE SELMS. [L. s.]

Witnesses:

JOSEPH A. MINTURN,
F. W. WOERNER.