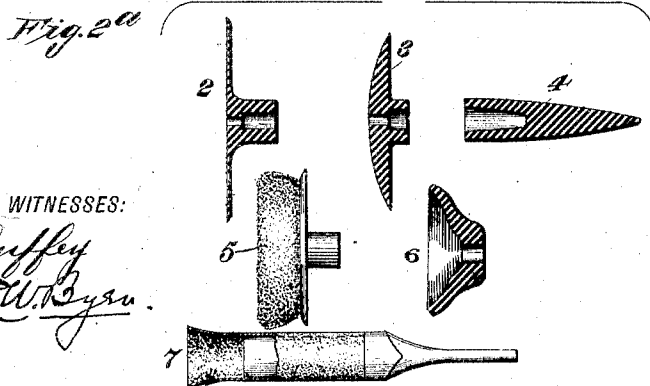
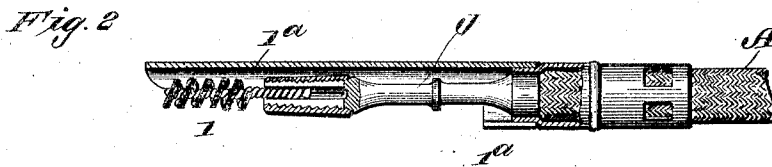
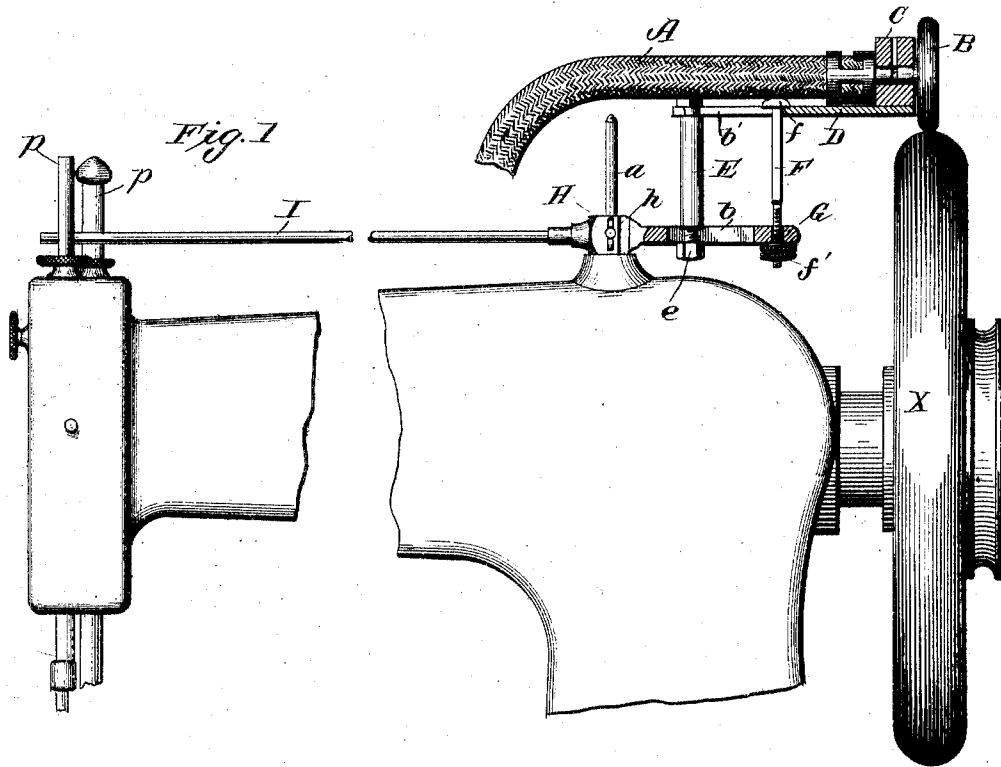


No. 783,856.

PATENTED FEB. 28, 1905.

M. CHAFFIN.
 MASSAGE MACHINE.
 APPLICATION FILED AUG. 31, 1904.



WITNESSES:
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MAY CHAFFIN, OF HUNTINGTON, WEST VIRGINIA, ASSIGNOR OF ONE-HALF TO FRANK L. DOOLITTLE, OF HUNTINGTON, WEST VIRGINIA.

MASSAGE-MACHINE.

SPECIFICATION forming part of Letters Patent No. 783,856, dated February 28, 1905.

Application filed August 31, 1904. Serial No. 222,794.

To all whom it may concern:

Be it known that I, MAY CHAFFIN, a citizen of the United States, residing at Huntington, in the county of Cabell and State of West Virginia, have invented a new and useful Improvement in Massage-Machines, of which the following is a specification.

My invention is in the nature of a novel massage-machine for applying a vibratory or frictional massage to various parts of the body and also for cleaning the teeth, and which device is so constructed as to be capable of easy attachment to and operation by the ordinary family sewing-machine.

It consists in certain novel features of construction and arrangement, which I will now proceed to fully describe, and set forth in the claims, reference being had to the accompanying drawings, in which—

Figure 1 represents a side view, partly in section, of my massage-machine applied to a sewing-machine. Fig. 2 is a side view of the handpiece with adjustable massage-terminal and guard. Fig. 2^a shows different forms of these massage-terminals.

In the drawings, A represents a flexible rotary shaft constructed in the general manner of that employed on dental engines and the like. This shaft at one end turns in a boxing C, provided with suitable oil-holes, and the end of the shaft extends through the boxing and is rigidly attached to a rubber-faced pulley B. This pulley is designed to be adjusted to frictional contact with some rotating wheel or to a fan, by which it is turned to rotate the flexible shaft A. The other end of the flexible shaft is provided with a handpiece J, Fig. 2, to which is to be attached the various massage-terminals. These terminals may take different forms. That shown in Fig. 2 is a rotary brush 1, which may be applied to rubbing or cleaning interior cavities of the body, as for insertion into the mouth for cleaning and polishing the teeth, &c. When this brush is employed, a curved guard-finger 1^a is designed to be employed therewith to protect the side of the cheek or other portion of the body which it is not desired to touch. This curved guard-finger has a spring-collar at its base, by

which it is detachably held onto the hand-piece.

In the place of the rotary brush I may use either of the terminals shown in Fig. 2^a, in which 2 is a soft-rubber flapping-disk suitable for massage treatment of the eyelids and deep cavities of the face. 3 is a convex-faced disk of soft rubber. 4 is a long conical tip of soft rubber for introduction into the ear. 5 is a wool-faced disk. 6 is a cup-shaped disk, and 7 is a flat stem with a tubular extension of chamois-skin which gives a flapping action or to receive a small lump of ice.

In Fig. 1 I show the massage-machine applied to and operated by an ordinary sewing-machine, which is available as a source of power in most households. The journal-bearing C for the flexible shaft is mounted on the end of a slotted spring-plate D. This in turn is supported upon two adjustable upright posts E and F, and these posts are carried on a slotted bar G, having an enlargement H with a vertical notch through it to slip on the spool-spindle *a* of the sewing-machine, where it may be secured by a set-screw *h*. On the opposite side of the enlargement H from the slotted bar G a bar I is fixed, which extends between projections *p p* on the sewing-machine head and serves to hold the friction-pulley B in line with the sewing-machine wheel X to be driven thereby.

Inasmuch as the spool-spindles *a* of different machines may be located at different horizontal distances or different elevations from the sewing-machine wheel X, I have provided for both a horizontal and vertical adjustment to render the massage device generally applicable to all sewing-machines of this type. For this purpose the spring-plate D and posts E are rigidly connected by a bolt, and the post E has its lower end reduced and extended through the slot *b* of bar G and is adjustably secured by a nut *e*. The upper end of post F extends through the slot *b'* of spring-plate D and has an enlarged head *f* above it. The lower end of the post F is screw-threaded and extends through a hole in the end of bar G and has a clamping thumb-nut *f'* below it, which is used to adjust friction-pulley B to

sewing-machine wheel X. By means of the slots *b* and *b'* in the plate D and bar G it will be seen that the posts E and F may be set closer together or farther apart to lengthen
 5 or shorten the frame to suit the distance between the spool-spindle and wheel X, while the screw-threaded character of the post F permits the pulley B to be raised or lowered. In
 10 this way the massage device is made applicable to practically all sewing-machines having the spool-spindle *a* above or on the side of the sewing-machine arm.

In carrying out my invention I would have it understood that I may make various changes
 15 in the detailed construction of the same without departing from the scope and spirit of the invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters
 20 Patent, is—

1. A massage device, consisting of a flexible rotary shaft bearing a friction-pulley at one end and a handpiece with massage-terminal at the other, and a detachable supporting-plate
 25 for holding it in frictional relation to the rotating member of a motor mechanism substantially as described.

2. A massage device, consisting of a flexible rotary shaft bearing a friction-pulley at one
 30 end and a handpiece with rotary brush at the other, a detachable guard for the brush, and a supporting-plate for holding the massage-shaft and friction-pulley in contact with the rotating member of a motor mechanism sub-
 35 stantially as described.

3. A massage device, consisting of a flexible rotary shaft bearing a friction-pulley at one end and a handpiece with a massage-terminal

at the other, and a supporting-frame and means for mounting it on the spool-spindle of a sewing-machine substantially as described. 40

4. A massage device, consisting of a flexible rotary shaft bearing a friction-pulley at one end and a handpiece with a massage-terminal at the other, a supporting-frame having a bar
 45 formed with a seat adapted to embrace the spool-spindle of a sewing-machine, and an extension from the bar on the opposite side from the friction-pulley to hold the friction-pulley against the sewing-machine wheel substan-
 50 tially as described.

5. A massage device, consisting of a flexible rotary shaft bearing a friction-pulley at one end and a handpiece with a massage-terminal at the other end, a supporting-frame for
 55 mounting the massage device on the spool-spindle of a sewing-machine, said supporting-frame being made adjustable to correspond to the distance between the spool-spindle and the wheel of the sewing-machine substantially as
 60 described.

6. A massage device, consisting of a flexible rotary shaft bearing a friction-pulley at one end and a handpiece with a massage-terminal at the other, a slotted plate D carrying the
 65 journal-box C for the shaft, the slotted bar G with seat to slip on the spool-spindle, the two adjustable posts E F connecting the slotted plate D and slotted bar G and an extension I connected with the slotted bar G on the oppo-
 70 site side of its support substantially as described.

MAY CHAFFIN.

Witnesses:

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 WM. CHAFFIN.