

March 6, 1934.

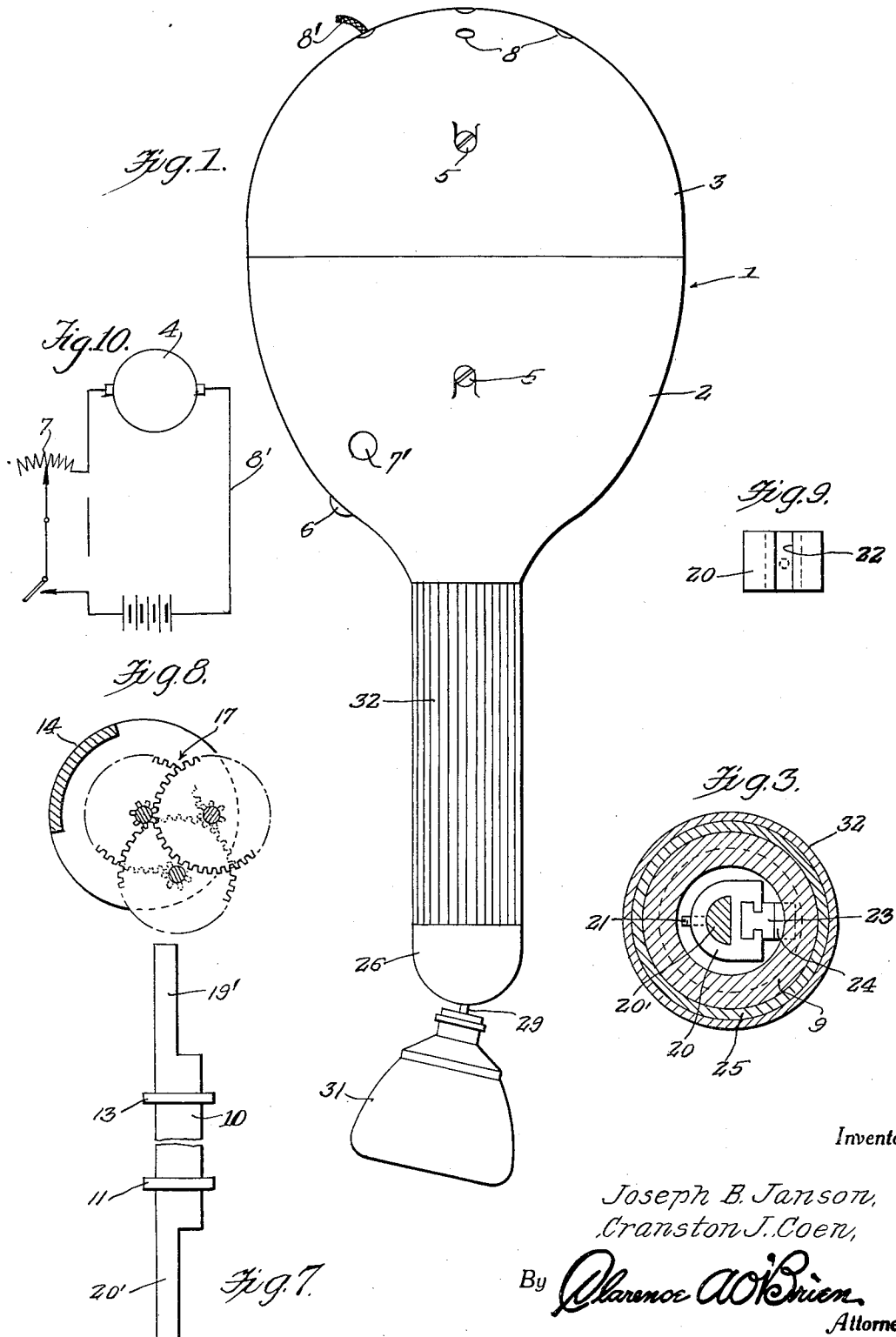
J. B. JANSON ET AL

1,950,248

MASSAGER

Filed Oct. 10, 1931

2 Sheets-Sheet 1



Inventor

Joseph B. Janson,
Cranston J. Coen,

By *Clarence A. O'Brien*
Attorney

March 6, 1934.

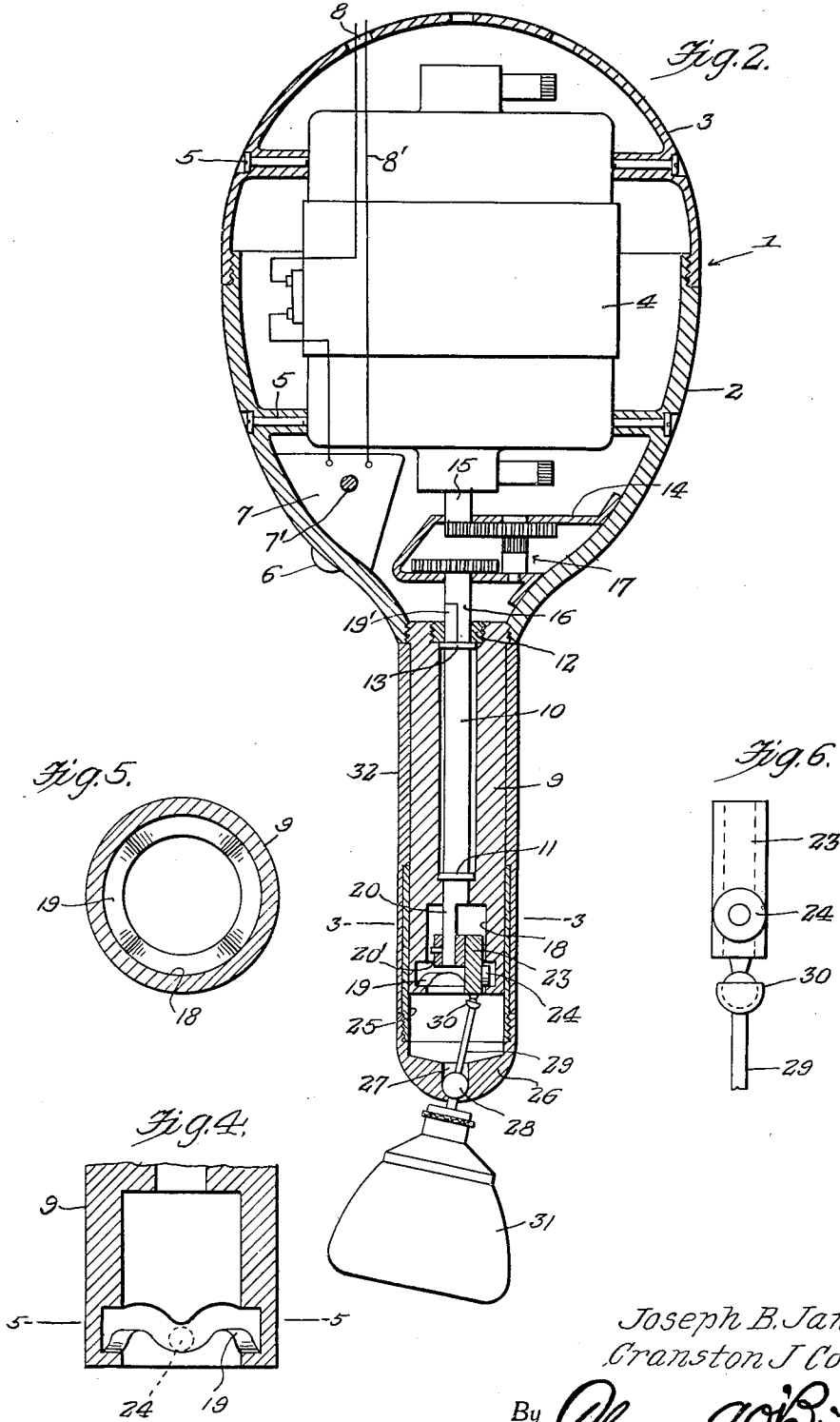
J. B. JANSON ET AL

1,950,248

MASSAGER

Filed Oct. 10, 1931

2 Sheets-Sheet 2



Inventor

Joseph B. Janson,
Granston J. Coen,

By *Clarence A. O'Brien*
Attorney

UNITED STATES PATENT OFFICE

1,950,248

MASSAGER

Joseph B. Janson and Cranston J. Coen, Excelsior
Springs, Mo.

Application October 10, 1931, Serial No. 568,176

2 Claims. (Cl. 128—46)

This invention relates to a massager and has for one of its important objects to provide, in a manner as hereinafter set forth, a device of this character embodying a motor driven massaging head and further including means for imparting a novel motion to said head.

Other objects of the invention are to provide a massager of the character described which will be simple in construction, strong, durable, light in weight, efficient and reliable in use, and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawings wherein like characters of reference designate corresponding parts throughout the several views, and wherein:—

Figure 1 is a view in side elevation of a massager in accordance with the present invention.

Figure 2 is a view in vertical section through the massager.

Figure 3 is a view in horizontal cross section taken substantially on the line 3—3 of Figure 2.

Figure 4 is a detail view in vertical section through the cam.

Figure 5 is a view in horizontal cross section taken substantially on the line 5—5 of Figure 4.

Figure 6 is a detail view in elevation showing the means for operatively connecting the head supporting rod to the rotary shaft.

Figure 7 is a detail view in elevation of the shaft which actuates the head.

Figure 8 is a detail view showing, in plan, a train of reduction gears by which the shaft shown in Figure 7 is connected to the electric motor.

Figure 9 is a detail view of the channeled collar which is fixed on one end portion of the drive shaft.

Figure 10 is a diagrammatic view of the circuit.

Referring now to the drawings in detail, it will be seen that the massager constituting the present invention comprises a substantially bulbous housing of suitable material which is designated generally by the reference numeral 1, said housing comprising a lower portion or body 2 upon which is threadedly mounted a removable upper portion or cap 3. A suitable reversible electric motor 4 is mounted centrally in the housing 1 in spaced relation thereto and secured in position by suitable means, as at 5. The electric motor 4 is vertically disposed. The reference numeral 6 designates a control switch for the motor and 7 is a conventional rheostat through which the speed of the motor may be varied as

desired. The control member for the rheostat is shown at 7'. In its upper portion the housing 1 is provided with openings 8 for ventilation and for the passage of electricity conductor wires 8' to the motor 4.

At its lower end the housing 1 is provided with a threaded opening for the reception of a tubular casing 9 in which a shaft 10 is journaled. The lower end of the bore of the tubular casing 9 is formed to provide a shoulder with which a collar 11 on the lower end portion of the shaft 10 abuts. The upper portion of the shaft 10 is journaled in a bushing 12 which is threaded into the upper end portion of the casing 9 and which provides an abutment for the collar 13 on an upper portion of said shaft 10. The collars 11 and 13 retain the shaft 10 against longitudinal movement, as will be apparent.

The reference numeral 14 designates a gear supporting bracket which is mounted in the housing 1 below the electric motor 4. The lower end portion of the motor shaft 15 extends through the bracket 14. The reference numeral 16 designates a comparatively short shaft which is operatively connected with the shaft 10 at the upper end thereof and which projects rotatably into the bracket 14. A train of reduction gears designated generally by the reference numeral 17 operatively connects the shaft 16, and consequently the shaft 10, to the electric motor shaft 15 for actuation thereby. The reduction gears 17 are mounted in the bracket 14.

Extending upwardly into the tubular casing 9 is a chamber or recess 18 having its lower portion counterbored and provided with an internal cam 19. The end portions of the shaft 10 are substantially semi-circular in cross section, as indicated at 19' and 20'. The lower portion of the shaft 16 is correspondingly shaped in cross section and is journaled in the bushing 12 in overlapping relation to the portion 19' of the shaft 10. In this manner the shafts 10 and 16 are connected together.

The portion 20' of the shaft 10 extends downwardly in the chamber or recess 18 and mounted thereon is a collar 20 which is detachably secured in position by a set screw 21. On one side the collar 20 is comparatively thick and has formed therein a vertically extending channel 22 for slidably receiving a vertically disposed bar 23 which is operable vertically in the chamber or recess 18. On one side of its lower portion the bar 23 has mounted thereon a roller 24 which is adapted for travel on the cam 19, thus imparting reciproca-

tory motion to the bar 23 as said bar is rotated with the shaft 10.

A cylinder 25 is secured, in any suitable manner, on the lower portion of the tubular casing 9 and is provided with an externally threaded lower portion which projects below said tubular casing 9. A cap 26 is threaded on the projecting end portion of the cylinder 25 and is provided with a passage 27 which is counter-bored in a manner to provide a rounded bearing in which is mounted for universal movement a ball 28 on an intermediate portion of a rod 29. At its inner end the rod 29 is operatively connected to the lower end of the bar 23 by a ball and socket or universal joint 30. On its outer end the rod 29 has detachably secured thereto in any suitable manner a suitable head or applicator 31. The head or applicator 31 is preferably secured to the rod 29 in such a manner that it may be expeditiously detached and replaced with another type or shape of head when desired.

A fluted or ribbed sleeve 32 extends over the tubular casing 9 and the cylinder 25 from the cap 26 to the lower end of the housing 1. This sleeve constitutes a handle and is preferably of non-conducting material.

In use, the rotary movement of the shaft 10 is converted in a manner to cause the head or applicator 31 to have a sinuous progressive motion. The head 31 does not rotate and in this manner friction is substantially eliminated when the device is in use. This constitutes a most important and desirable feature of the invention. The motion of the head 31 is such that the skin and flesh is kneaded.

It is believed that the many advantages of a massager in accordance with the present invention will be readily understood, and although the preferred embodiment of the invention is as illustrated and described, it is to be understood that

changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:—

1. A massaging device comprising a housing, an elongated, tubular casing mounted on the housing and projecting therefrom, said casing having a chamber extending thereinto from its free end, an electric motor mounted in the housing, a shaft journaled longitudinally in the tubular casing, means operatively connecting the shaft to the motor for actuation thereby, a cam in the chamber, a cap supported on the tubular casing, a rod extending for swinging movement through the cap, a massaging head on the rod, and means operatively connecting the rod to the shaft for actuation thereby in a manner to impart a sinuous, non-rotary motion to the head, the last named means comprising a collar fixed on the shaft, a bar slidably mounted on the collar, a roller mounted on the bar and operatively engaged with the cam, and a universal joint connecting the bar to the rod.

2. In a massaging device, a supporting member having a chamber therein, a rotary shaft having a part extending into said chamber, and an annular cam groove in the walls of said chamber, a member supported for rotary movement with the said part of the shaft and also for sliding movement parallel to the shaft, a projection on said member engaging the groove for imparting sliding movement to the member, a stem supported for rocking and sliding movement in the supporting member, a massage device connected to the outer end of the stem and a universal joint connecting the other end of the stem with the sliding member.

JOSEPH B. JANSON.

CRANSTON J. COEN.

44.	120
50.	125
55.	130
60.	135
65.	140
70.	145
75.	150