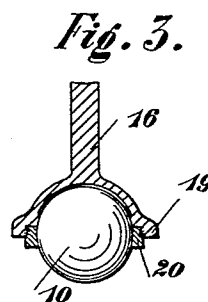
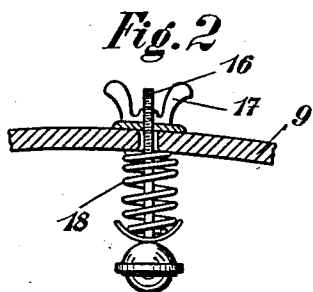
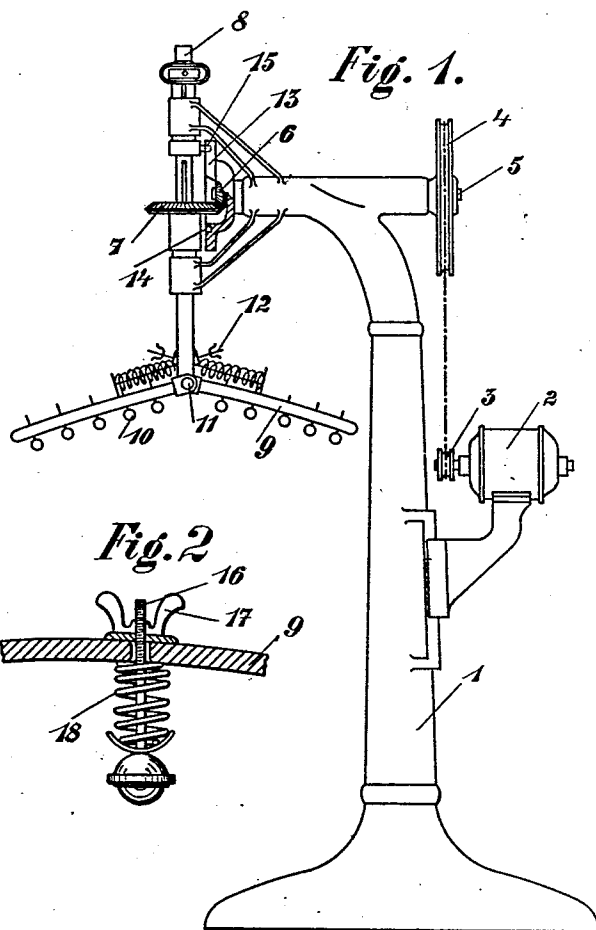


No. 857,761.

PATENTED JUNE 25, 1907.

F. SCHMIDT.
 MASSAGE APPARATUS.
 APPLICATION FILED MAR. 16, 1907.



Witnesses
 J. D. Dwyer
 Geo. H. Luscombe.

Inventor
 Ferdinand Schmidt
 by Paul D. Schilling
 his attorney

UNITED STATES PATENT OFFICE.

FERDINAND SCHMIDT, OF SCHREIBERHAU, GERMANY.

MASSAGE APPARATUS.

No. 857,761.

Specification of Letters Patent.

Patented June 25, 1907.

Application filed March 16, 1907. Serial No. 362,781.

To all whom it may concern:

Be it known that I, FERDINAND SCHMIDT, a subject of the King of Prussia, and residing at Schreiberhau, Riesengebirge, German Empire, have invented certain new and useful Improvements in Massage Apparatus, of which the following is a specification.

The subject of my invention is an improved apparatus for massaging the human body and more particularly the abdomen. In this appliance the actual massaging members are given a rotary motion, resembling the rotary motion of the fingers over the parts under treatment in hand massage, about an axis lying outside of them, whereby the parts are kneaded or shampooed (so-called *pétrissage*). This rotary motion of the massaging members may be advantageously combined with a positive up and down motion (vibration), so that the parts being treated are not only kneaded, but also percussed (so-called *tapotement*).

One form of construction of my new apparatus is illustrated in the accompanying drawing, in which

Figure 1 is an elevation of the apparatus and Figs. 2 & 3 detail sectional views of parts to be hereinafter referred to.

1 is an upright pillar on which is mounted an electric motor 2, which with the aid of the grooved pulley 3 drives the pulley 4 and its shaft 5. The bevel gears 6, 7 transmit the motion of the latter to the vertical shaft 8. At the bottom of the latter are connected the arms 9, to which are secured the massaging members 10, in this particular construction balls being shown. The arms 9 may be advantageously connected to the shaft 8 by joints 11, so that by turning the screws 12 and thus causing turning at the joints, the arms may be adjusted at a greater or less inclination to each other, that is to the shaft 8. The latter can be raised or lowered by hand and thus brought to the precise height required. The up and down motion of this shaft 8, with arms 9 and massaging members 10, is effected by means of a disk 13 mounted on the shaft 5. This disk is provided with an eccentric annular groove 14, in which there engages a guide pin 15 projecting from the shaft 8 but not rotating with it. The pin 15, and thus the shaft 8 and parts connected with it, are, therefore, raised and lowered on rotation of the grooved disk. This enables percussive treatment.

The actual massaging members 10 are, as

Fig. 2 shows, secured to the arms 9 with capability of yielding. They are carried by screw-ended stems 16, which pass through the arms 9 and are held by thumb nuts 17. Between arms and massaging members springs 18 are coiled on the stems 16, and can be brought under tension by tightening the nuts 17. The massaging members are mounted with capability of turning in all directions, in well-known manner. For this purpose the stems 16 are formed with internally threaded cups or sockets 19 at the bottom (Fig. 3) a ring 20 being screwed into the socket below the center-line of the ball 10. The massaging member, when in use, may be electrically charged in suitable, well-known manner. In view of the spring suspension of the massaging members, the latter adapt themselves perfectly to the particular part of the body under treatment, rolling over the same simultaneously with their rotary motion.

Although the apparatus is here shown arranged for electric driving, it is obvious that it may be worked by hand or otherwise if desired.

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

1. In a massage apparatus, in combination, a shaft, radial arms carried thereby, yielding socket-ended holders secured to the arms, massaging balls mounted in the sockets with capability of turning in all directions, and means for driving said shaft, substantially as and for the purpose set forth.

2. In a massage apparatus, in combination, a shaft, radial arms yieldingly carried thereby, spring actuated massaging means carried by said arms, and means for driving said shaft, substantially as and for the purpose set forth.

3. In a massage apparatus, in combination, a shaft, radial arms yieldingly carried thereby, massaging means carried by said radiating arms, and means for driving said shaft, substantially as and for the purpose set forth.

4. In a massage apparatus, in combination, a shaft, radial arms carried thereby, yieldable independently of one another, massaging means carried by said yielding radial arms, means for rotating said shaft, and means for reciprocating it in the direction of its axis during its rotation, substantially as and for the purpose set forth.

5. In a massage apparatus, in combination, a shaft, massaging means carried at the end thereof, a driving shaft, an eccentric mounted thereon, gearing for transmitting the motion of the driving shaft to the first said shaft, and means on the latter engaging with the eccentric, whereby the first said shaft is reciprocated in the direction of its axis during its rotation, substantially as and for the purpose set forth.

6. In a massage apparatus, in combination, a shaft, radial arms carried thereby, massaging means carried by said arms, a driving shaft, an eccentric mounted thereon,

gearing for transmitting the motion of the driving shaft to the first said shaft, and means on the latter co-operating with the said eccentric, for reciprocating the first said shaft in the direction of its axis during its rotation, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

FERDINAND SCHMIDT.

Witnesses:

H. VON OISTE,
FRANZ FRANKS.