No. 838,096. PATENTED DEC. 11, 1906.

C. G. FENSTERMACHER.

MASSAGE MACHINE.

APPLICATION FILED APR. 28, 1905.

FIG. 1.

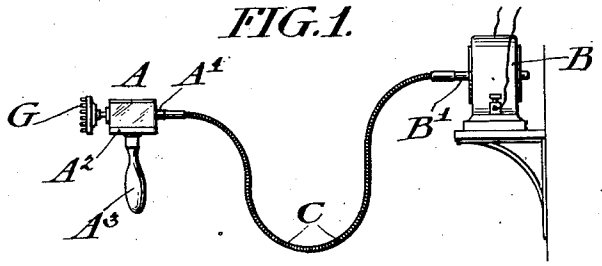


FIG. 2.

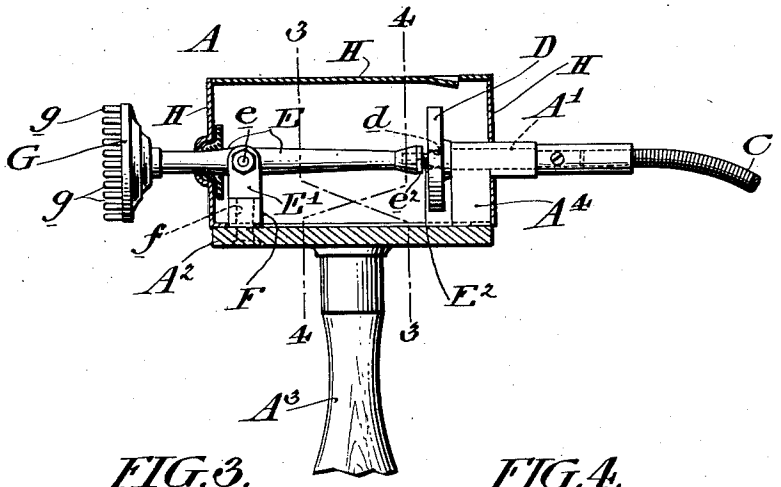


FIG. 3.

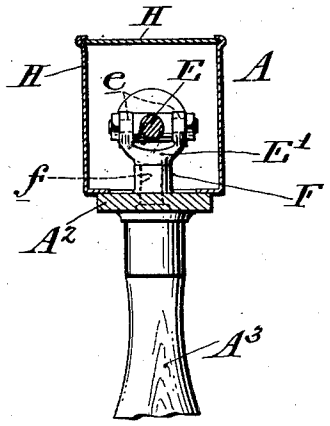
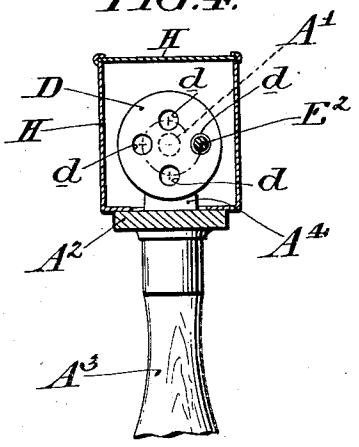


FIG. 4.



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MASSAGE-MACHINE.

No. 838,096. Specification of Letters Patent. Patented Dec. 11, 1906.

Application filed April 26, 1905. Serial No. 257,420.

To all whom it may concern:

Be it known that I, CHRISTIAN G. FENSTERMACHER, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Massage-Machines, of which the following is a specification.

My invention relates to a machine for manipulating a part or the whole of the body by percussion for the purpose of affecting the nervous and muscular system and the general circulation.

The nature of my invention will be best understood by reference to the accompanying page of drawings, in which—

Figure 1 illustrates a side elevation, on a reduced scale, of device and the means by which the same may be operated, the means, as shown, consisting of an electric motor having attached to its driving-shaft a flexible shaft leading to another shaft in the machine forming the subject-matter of my invention. Fig. 2 is an enlarged side elevation of my device with a portion of the cover in section, showing the mechanism employed for converting the rotary motion imparted to the machine into a gyratory motion. Fig. 3 shows a vertical section of my device, taken on the line 3 3 of Fig. 2; and Fig. 4 is a similar section taken on the line 4 4 of Fig. 2.

Referring to the letters of reference indicated upon the drawings, and more particularly in Fig. 1, A represents my device in its entirety, and A′ is its driving-shaft. B is a motor for driving the same, preferably an electric motor, as shown, having a driving-shaft B′, and C is a flexible shaft of coiled wire for transmitting power from the shaft B′ of the motor B to the shaft A′ of the massage-machine A.

Referring now more particularly to Figs. 2, 3, and 4, A^2 represents the supporting-frame of the machine, at the bottom of which is arranged a handle A^3, by which the device is manually supported. A^4 is a bearing fastened to or forming part of the supporting-frame A^2 and carrying the shaft A′. This shaft is provided with a crank D, preferably a disk crank, which has drilled through its face a number of holes *d d*, &c., no two of which are the same distance from the center. E is a lever fulcrumed at a point *e* to a yoke E′, which in turn is fulcrumed at a point *f* to a lug F, projecting upward from the supporting-frame A^2. The lever E, which gets its motion from the crank D, has upon its long arm a stud E^2, which has a spherical end adapted to rest in one of the holes *d* of the crank D. This stud is threaded into the end of the lever E and guarded against turning by a jam-nut e^2. The object of placing a number of holes in the crank-disk D and in having them arranged at varying distances from the center of the shaft is to alter the gyratory throw of the lever E, which may be done, as will be readily understood, by changing the stud E^2 from one to the other of the holes until the desired degree of percussion is produced, which is an important factor in machines of this character. The short arm of the lever E is provided with a detachable flesh-brush G, which may be threaded or otherwise fastened to the end of said lever. This brush is preferably formed of molded soft rubber, having upon its face a large number of projections or prongs *g*, which are brought in contact with the surface of the body while the lever E is moving at a high rate of speed; but it will be understood that brushes or pads of any description may be employed without departing from the nature and scope of my invention. The working parts of the machine are inclosed in a casing H, which may in a convenient way be secured to the supporting-frame A^2.

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

1. The combination of a frame provided with a crank and crank-shaft, a lever supported within the frame having one of its ends fitted to an opening in the crank and the other adapted to a flesh-brush, and a yoke swiveled to the frame and forming a bearing for said lever so as to receive the thrust when pressure is applied to the flesh-brush.

2. The combination of a frame provided with a crank-shaft and crank, the latter being furnished with an eccentric opening, a lever provided with a spherical end adapted to rest in said opening and with an oppositely-disposed flesh-brush, and a thrust-bearing for said lever consisting of a yoke swiveled to the frame and having bifurcated ends in which the lever is journaled.

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

CHRISTIAN G. FENSTERMACHER.

Witnesses:

ARNOLD KATZ,

DAVID S. WILLIAMS.