May 25, 1926. 1,585,923

J. H. KELLOGG ET AL

MASSAGING MACHINE

Filed April 21, 1924

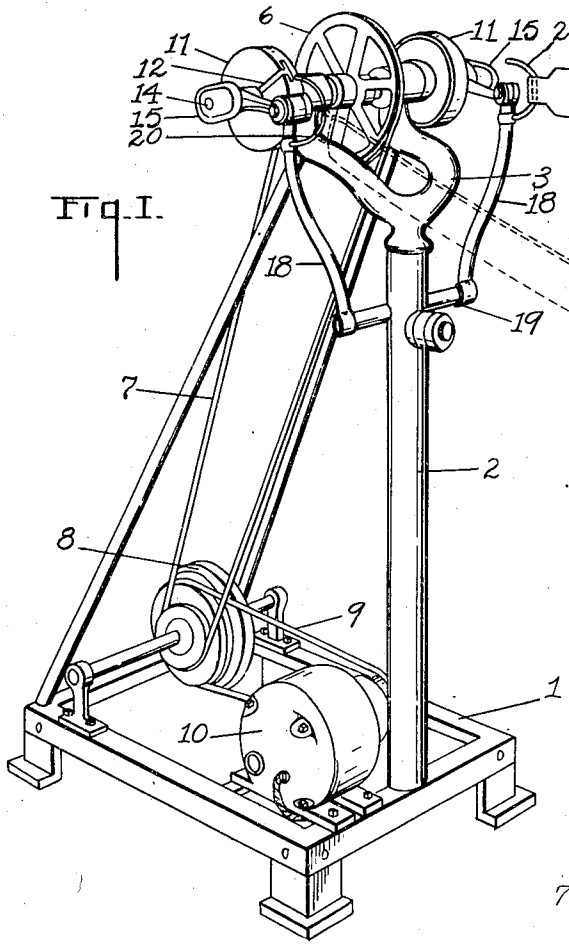


Fig. I.

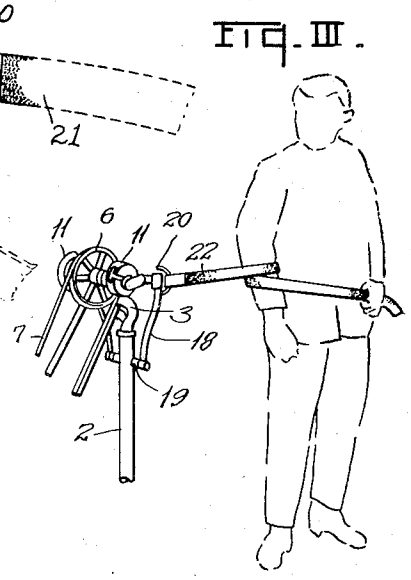


Fig. III.

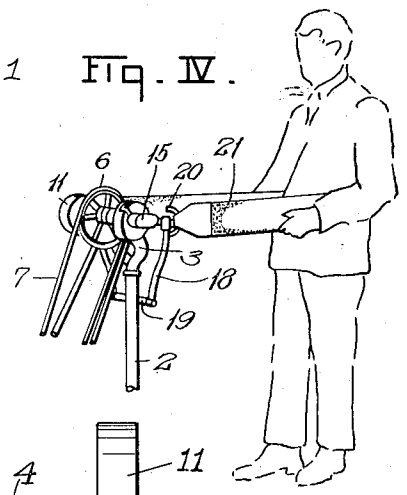


Fig. IV.

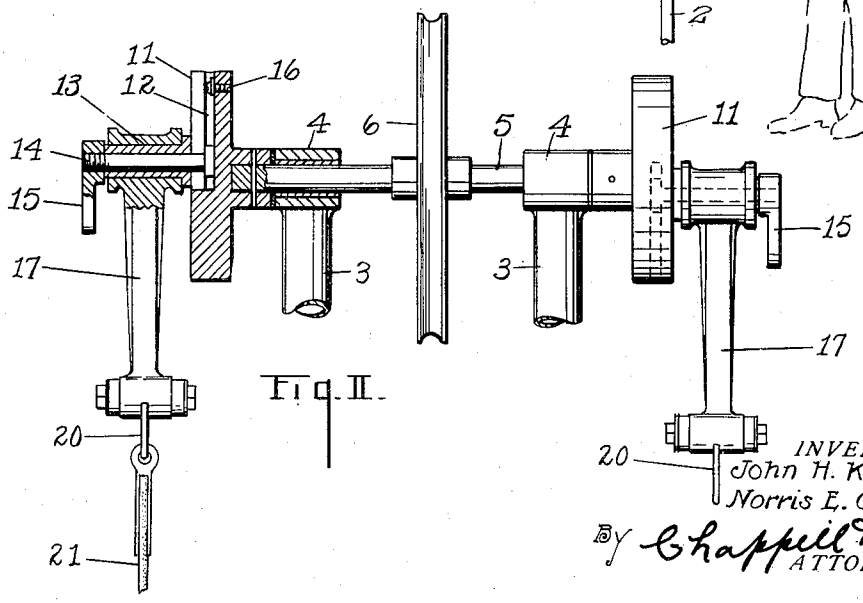


Fig. II.

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UNITED STATES PATENT OFFICE.

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MASSAGING MACHINE.

Application filed April 21, 1924. Serial No. 707,986.

This invention relates to improvements in massaging machines.

The main objects of this invention are:

First, to provide an improved massaging machine by the aid of which various parts of the body may be effectively massaged.

Second, to provide an improved massaging machine which may be manipulated by the patient or by an unskilled operator.

Third, to provide an improved massaging machine which is adjustable to meet the particular conditions that it is desired to treat.

Fourth, to provide an improved massaging machine having these several advantages which is very simple and compact in structure.

Further objects, and objects relating to structural details, will definitely appear from the detailed description to follow.

We accomplish the objects of our invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure which is a preferred embodiment of our invention is clearly illustrated in the accompanying drawing, forming a part of this application, in which:

Fig. I is a perspective view of our improved massaging machine, the one type of applicator being shown by dotted lines.

Fig. II is a fragmentary view partially in section, showing structural details.

Fig. III is a fragmentary perspective view, showing another method of using our improved massaging machine.

Fig. IV is a fragmentary perspective view, further illustrating the method of use.

In the drawing similar reference characters refer to similar parts throughout the several views.

Referring to the drawings, the base 1 is of suitable dimensions and weight to properly support and balance the machine. At one end of this base is an upright 2 carrying the forked bearing bracket 3 having bearings 4 in the arms thereof for the shaft 5. This shaft is provided with a pulley 6 disposed between the arms, the pulley being connected by the belt 7 to the stepped pulley 8 which is in turn connected by the belt 9 to the pulley of the motor 10. The stepped pulley 8 provides means for varying the speed of the shaft 5.

Mounted on the shaft 5 is a pair of crank discs 11 having radial dove-tailed grooves 12 therein in which are adjustably secured the crank or wrist pins 13, the bolts 14 being arranged through the crank pins with their heads in the grooves. Clamping nuts 15 on the outer ends of the bolts 14 secure them in their adjusted positions.

Stop screws 16 prevent the accidental removal of the crank pins. By adjusting the crank pins to and from the center of the disc, the throw of the crank pins may be varied, as desired. These crank pins are connected by the pitmen or connecting rods 17 to the upper ends of the rocker or swinging arms 18 which are pivoted on the cross arm 19 carried by the upright.

The rocker arms are provided with curved hooks 20 with which the ends of the strap-like applicator 21 may be engaged—either both ends as shown in Figs. I and III, or one end, as may be desired. In Fig. III, I show an applicator 22 narrower than the applicator 21 and having an eye at one end only. Other forms of applicators may be used.

With the parts thus arranged, a very great variety of treatments may be administered and many portions of the body massaged and exercised. By varying the speed and adjusting the throw, the treatment is varied or modified according to the particular needs or condition of the patient.

We have illustrated our improved massaging machine in an embodiment which has proven highly satisfactory.

We have not attempted to illustrate or describe certain modifications or adaptations as we believe the disclosure made will enable those skilled in the art to which our invention relates to embody or adapt our improvements as may be desired.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is:

1. In a massaging machine, the combination of a base, an upright mounted thereon and provided with a forked bearing bracket at its upper end, bearings on the arm of said bracket, a shaft mounted in said bearings to project therefrom and provided with a pulley disposed between the arms, crank discs mounted on the ends of said shaft and having radial grooves therein, crank pins adjustably secured in said grooves, a cross arm on said upright, swinging arms pivotally

mounted on said cross arms, said rocker arms being provided with curved rearwardly facing hooks, pitmen connecting said crank pins to said swinging arms, and an applicator detachably engageable with said hooks.

2. In a massaging machine, the combination of a base, an upright mounted thereon and provided with a forked bearing bracket at its upper end, bearings on the arms of said bracket, a shaft mounted in said bearings to project therefrom and provided with a pulley disposed between the arms, crank discs mounted on the ends of said shaft and having radial grooves therein, crank pins adjustably secured in said grooves, a cross arm on said upright, swinging arms pivotally mounted on said cross arms, and pitmen connecting said crank pins to said swinging arms.

3. In a massaging machine, the combination of a base, an upright mounted thereon and provided with a forked bearing bracket at its upper end, bearings on the arms of said bracket, braces extending from said arms to said base, a shaft mounted in said bearings to project therefrom and provided with a pulley disposed between the arms, crank discs mounted on the ends of said shaft and having radial grooves therein, crank pins adjustably secured in said grooves, arms pivotally mounted on said upright, pitmen connecting said crank pins to said arms, and an applicator detachably connected to said arms.

4. In a massaging machine, the combination of a base, an upright, a shaft carried thereby, crank discs on said shaft provided with radially adjustable crank pins, arms pivotally mounted on said upright for independent pivotal movement, pitmen connecting said arms to said crank pins, and an applicator adapted to be connected to said arms.

5. In a massaging machine, the combination of a base, an upright, a shaft carried thereby, crank discs on said shaft provided with crank pins, arms pivotally mounted on said upright for independent pivotal movement, pitmen connecting said arms to said crank pins, and an applicator adapted to be connected to said arms.

6. In a massaging machine, the combination of a base, an upright, a shaft carried thereby, crank discs on said shaft provided with radially adjustable crank pins, arms pivotally mounted on said upright for independent pivotal movement, and pitmen connecting said arms to said crank pins.

In witness whereof we have hereunto set our hands.

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