June 13, 1933. E. TIMAR 1,913,462

MASSAGE DEVICE

Filed March 11, 1932

Fig. 1

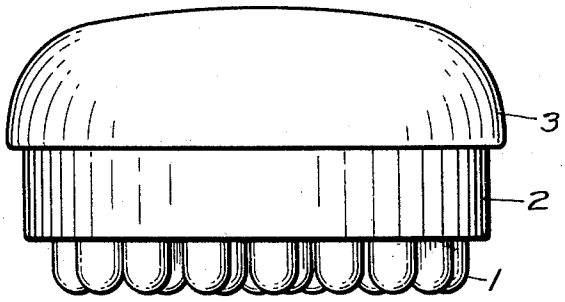


Fig. 2

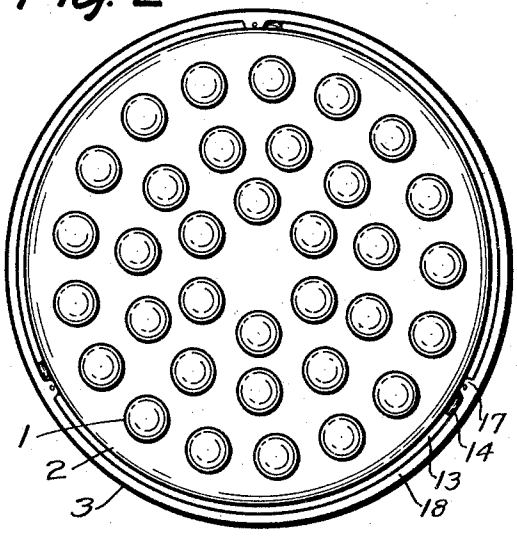


Fig. 3

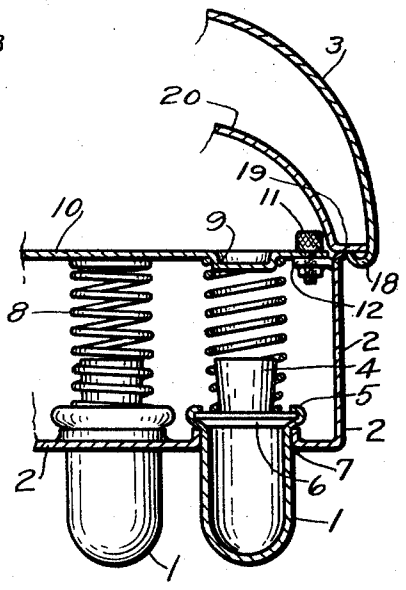
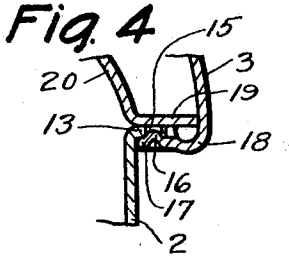


Fig. 4



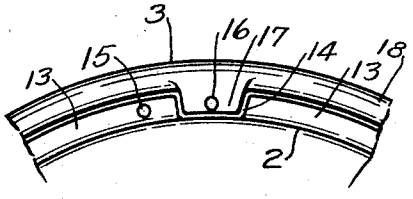


Fig. 5

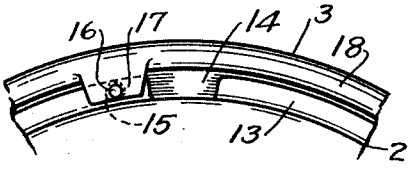


Fig. 6

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1,913,462

UNITED STATES PATENT OFFICE

EDWARD TIMAR, OF FAR ROCKAWAY, NEW YORK

MASSAGE DEVICE

Application filed March 11, 1932. Serial No. 598,272.

The invention is a mechanical massaging device having a plurality of fingers held in a casing adapted to be held by hand.

The object of the invention is to provide a metallic massaging device in which the massaging members are closely positioned and yieldingly held so that they provide a comparatively smooth, soft, touch.

Another object of the invention is to provide a massaging device having a plurality of resiliently held fingers which can be made of metal.

Another object of the invention is to provide a massaging device which can be cleaned and sterilized by boiling as a unit or in parts.

Another object of the invention is to provide a massaging device which can readily be taken apart.

Another object of the invention is to provide a metallic massaging device which can readily be taken apart without the use of tools.

A further object of the invention is to provide a metallic massaging device in which substantially all the parts are stamped from sheet metal ready for use and therefore readily assembled to form a finished unit.

And a still further object of the invention is to provide a mechanical massaging device which is of a simple and economical construction.

With these ends in view the invention embodies a cylindrical casing having a plurality of yieldingly held fingers and in which the casing is adapted to be held by hand.

Other features and advantages of the invention will appear from the following description taken in connection with the drawing, wherein:

Figure 1 is a view showing a side elevation of the device.

Figure 2 is a view looking toward the resiliently held fingers.

Figure 3 is a detail showing a cross section through one side of the casing and also through one of the fingers.

Figure 4 is a detail showing a cross section through a locking means for the casing.

Figure 5 is a detail showing a portion of the casing in which a lock is provided to hold one part of the casing to the other, and in which the locking means is shown open.

Figure 6 is a similar view showing the locking means in the closed position.

In the drawing the device is shown as it would be made wherein numeral 1 is the fingers, numeral 2 the casing, and numeral 3 the cap forming the upper part of the casing.

The fingers 1 may be made as shown in Figure 3 with a cylindrical shaped piece of material in which the lower end is round and closed, and the upper end is crimped over a stud 4 forming a flange 5 which secures the fingers to a head 6 of the stud. These fingers are slidably held in openings 7 in the casing 2 and it will be noted that the metal from the openings is bent upward slightly on the inside of the opening which provides a bearing for the fingers. The fingers are resiliently held downward by a spring 8, one end of which is held to the stud 4 and the other to a boss 9 on a plate 10 which is secured to the upper end of the casing 2 by knurled screws 11 which pass through the plate and are screwed into projections 12 extending inward from the sides of the casing as shown in Figure 3. It will be noted that the studs 4 are tapered so that when the lower end of the spring, which is of a slightly smaller diameter than the upper end of the stud, is pressed over the stud it will be frictionally held to the stud. The boss 9 is also made slightly larger than the inside diameter of the spring so that the spring may be sprung over the outer surface thereof and held thereto.

At the upper edge of the casing 2 is an outwardly extending flange 13 which may be provided with notches 14 as shown in Figure

5, and at one side of the notches is a small opening 15 into which a lug 16 on a projection 17 extending inward from the lower edge of the cap 3, may snap as the casing 2 is turned so that the flange 13 moves under projection 17, or is turned from the position shown in Figure 5 to the position shown in Figure 6. It will be understood, however, that this means of holding the cap to the casing may be formed in any other manner or any other means may be used for holding one part to the other. A bead 18 is provided at the lower end of the cap 3 which is crimped over a flange 19 of a member 20, forming a false bottom in the cap as shown, and it will be noted that as the cap 3 is placed over the casing 2 the flange 13 will fit inside of the bead 18 and the bead will form a guide, thereby locating the flange of the casing. When assembling the cap upon the casing the flange 13 is placed in the bead 18 with the notches 14 corresponding with the projections 17, as shown in Figure 5, and then the cap is turned to the position shown in Figure 6 so that it will be locked to the casing by the lug 16 which will snap into the opening 15.

It will be understood that changes may be made in the construction without departing from the spirit of the invention. One of which changes may be in the shape or design of the base, cap or fingers, another may be in the method of forming the fingers or in the use of other means for attaching the fingers to the studs, another may be in the use of other means for holding springs to the fingers, another may be in the use of other means of attaching the upper ends of the springs to the casing, and still another may be in the use of other means for mounting the fingers in the casing.

The construction will be readily understood from the foregoing description. In use the device may be provided as shown and it will be noted that the device may be held by placing the cap in the palm of the hand so that the fingers will extend outward, and holding the device in this manner the fingers may be applied to the body or part that is desired to massage and as the fingers are yieldingly mounted they will give as the device is used so that it will have a soft, smooth, touch. The amount of tension by which the fingers are held outward may readily be adjusted by changing the size of the springs so that the device may be readily applicable for all kinds of massaging.

Having thus fully described the invention what I claim as new and desire to secure by Letters Patent, is:

A massage device, comprising a casing having a pair of spaced apart bottom plates, the lower plate having a plurality of openings therethrough and the upper plate being imperforate and having corresponding spring seats in register with the openings, fingers independent of the upper plate and movably fitting through the openings in the lower plate and having stop flanges on their inner ends to engage the inner side of the lower plate and hold the fingers from detachment therefrom, said fingers having short stems on their inner ends spaced from the seats of the upper plate, and individual springs mounted on the stems of the fingers and extending from the stems to the corresponding seats of the upper plate for yieldingly and flexibly holding the fingers in projecting position.

In testimony whereof I affix my signature.

EDWARD TIMAR.