

Aug. 31, 1943.

B. P. LONDON

2,328,156

MASSAGING APPARATUS

Filed Nov. 18, 1941

3 Sheets-Sheet 1

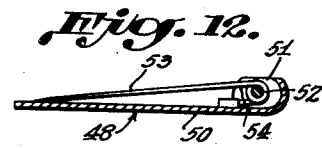
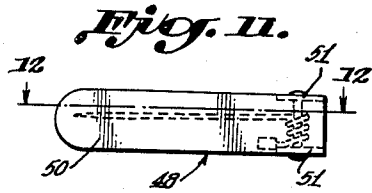
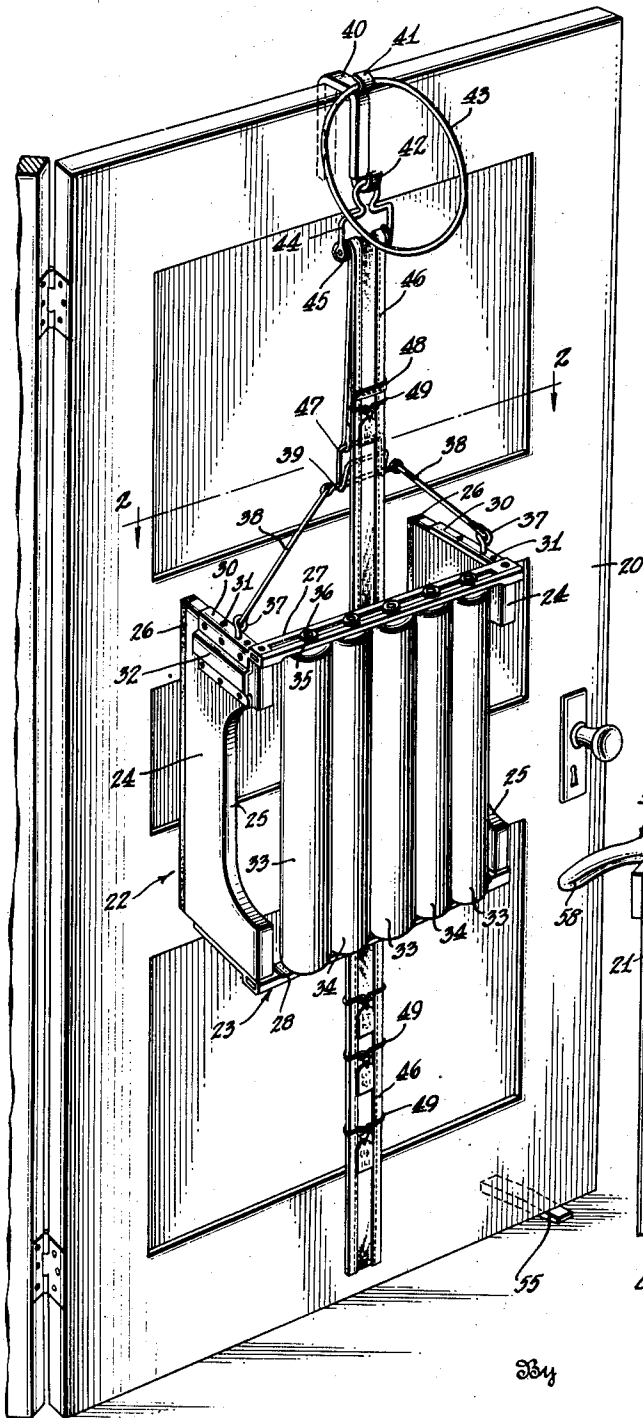
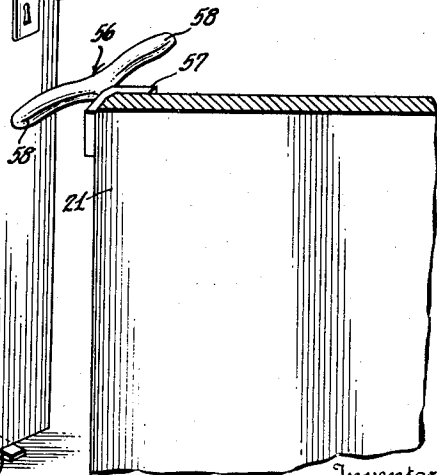


Fig. 1.



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3 Sheets-Sheet 2

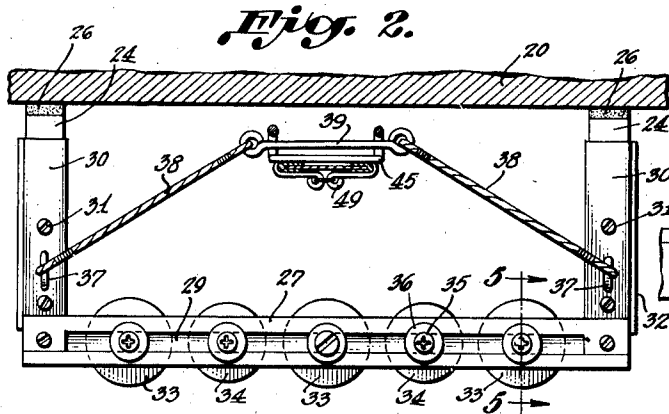


Fig. 5.

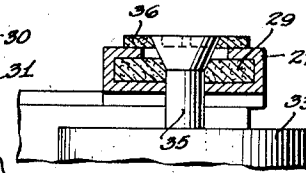
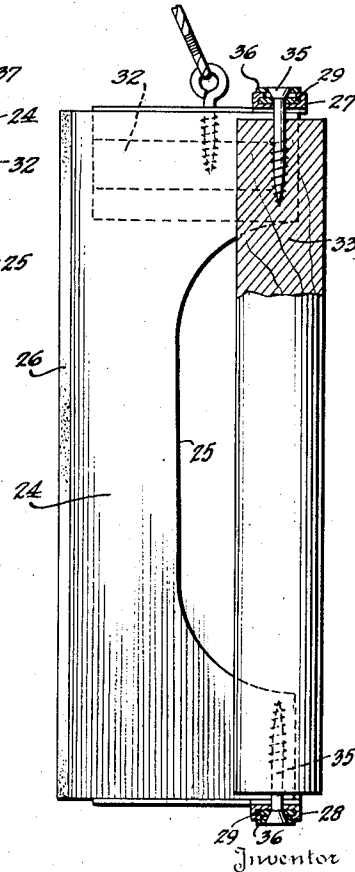
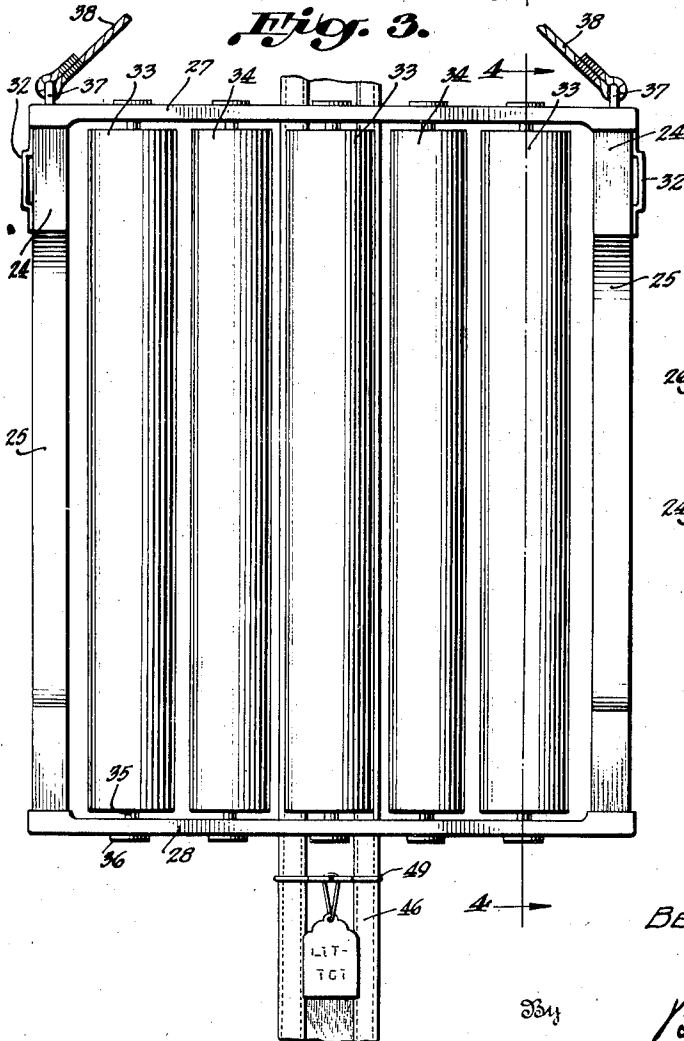


Fig. 4.



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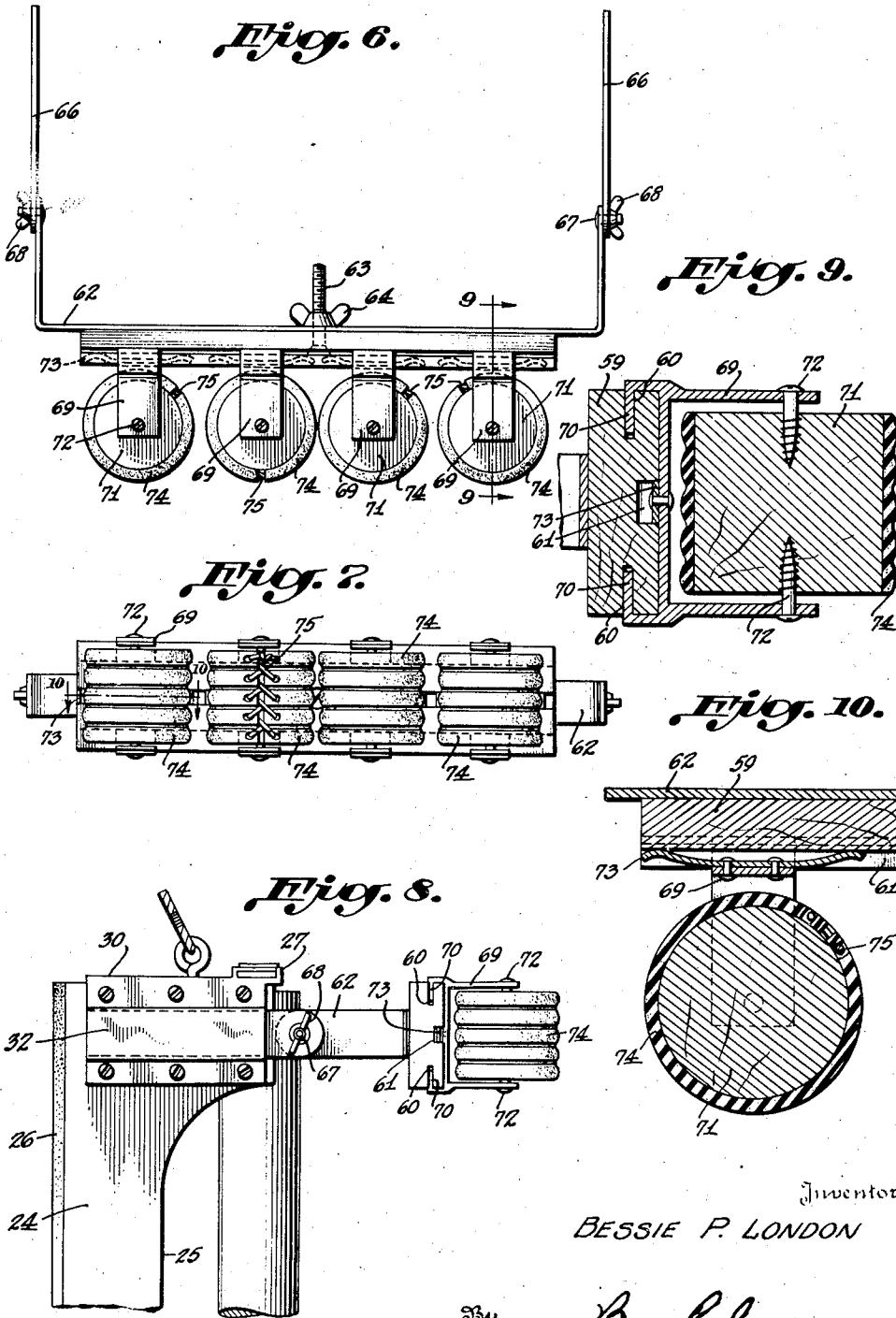
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MASSAGING APPARATUS

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3 Sheets-Sheet 3



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MASSAGING APPARATUS

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Application November 18, 1941, Serial No. 419,656

7 Claims. (Cl. 272-57)

The present invention relates to a new and useful massaging and exercising apparatus and has for an object to provide an improved apparatus for massaging the human body to reduce and eliminate corpulency and fatty tissues as well as to promote healthy muscular development and circulation of the blood.

It is well known that vigorous massaging of the body, and especially those parts of the body which are overweight by reason of fat, is an effective method of reducing without injury to the system. Therefore, another important object of the invention resides in providing an improved massaging apparatus in which a mechanical massage is afforded for maintaining local areas and the figure generally youthful and of good form.

A further object of the present invention resides in the provision of a massaging apparatus having a plurality of rollers wherein the movement of the body upon these rollers produces a most effective massaging and manipulation of the body, the concussions and vibrations resulting from the movement of the body upon and over these rollers producing an effective massaging of the body and also exercising various muscles of the body.

The present massaging apparatus is so constructed and arranged as to enable the user to do the massaging and exercising within the strength and power of endurance of the user.

A still further object of the present invention is to provide a massaging apparatus capable of massaging substantially every part of the body including the face and scalp.

To the accomplishments of these objects and such others as may appear hereinafter, the various features of the present invention reside in certain devices, combinations, and arrangements of parts fully described hereinafter. The illustrated embodiment of the present invention will be readily understood from an inspection of the accompanying drawings showing a preferred embodiment of the invention.

In the drawings, wherein like numerals refer to like or corresponding parts throughout the several views,

Figure 1 is a perspective view of one embodiment of the present invention showing the manner of mounting the apparatus on a door.

Figure 2 is a sectional view taken along the lines 2-2 of Figure 1.

Figure 3 is a front elevational view of the body manipulating rollers.

Figure 4 is a sectional view taken along the lines 4-4 of Figure 3.

Figure 5 is a sectional view taken along the lines 5-5 of Figure 2.

Figure 6 is a top plan view of the detachable massager.

Figure 7 is a front view thereof.

Figure 8 is a side detail view showing the manner of mounting one end of the detachable massager on the large massager.

Figure 9 is a sectional view taken on the line 9-9 of Figure 6.

Figure 10 is a sectional view taken on the line 10-10 of Figure 7.

Figure 11 is a top plan view of a fastener.

Figure 12 is a sectional view thereof taken on the line 12-12 of Figure 11.

Referring to the drawings, the illustrated embodiment of the present invention is shown mounted on a conventional door in the home of the user, the door being generally designated by the numeral 20 and the conventional door jamb by the numeral 21. The main portion of the massaging apparatus comprises a relatively large massager 22, comprising a base 23 in which the massage rollers are mounted. The base 23 consists of two supporting members 24 having the cutout portions 25. The rear of each supporting member is provided with rubber or belt cushioning members 26 to prevent marring of the door and slipping of the massager during use. The two supporting members 24 are connected to each other by means of cross bars 27 and 28 functioning as a mounting frame for the large massaging rollers.

Each of the cross bars 27 and 28 comprises a generally C-shaped member as seen in Figure 5, and within the C portion of the bar is mounted a strip 29 formed of leather or like material. The function of this strip will appear as the description progresses. The bars 27 and 28 include rearwardly extending attaching members 30 connected to supporting members 24 through screws 31. It is to be understood that any conventional attaching means may be used in place of screws. The upper attaching members 30 are shown provided with channel portions 32 adapted to frictionally receive the detachable massager to be more fully explained below.

Mounted between the upper and lower cross bars 27 and 28 are a plurality of rollers, shown in the present embodiment as comprising five in number, although any number of rollers may be used. The alternate rollers 33 including the outside rollers are of slightly larger diameter than

the remaining rollers 34, the rollers being closely spaced together as seen in Figure 2. The provision of alternate rollers of different diameters is an important feature of the present invention and will be discussed more fully in describing the operation of the apparatus.

The rollers 33 and 34 are secured to the cross bars 27 and 28 by means of threaded bolts 35 passing through strip 29. Leather washers 36 are mounted on the bolts between the heads of the bolts and the cross bars. The provision of these washers and the leather strips 29 permits free rotation of the rollers without any metal to metal contact, thus resulting in noiseless operation without necessitating complicated bearing members needing constant lubrication.

A relatively simple supporting mechanism is provided for the large massager and comprises a pair of eye bolts 37 to which supporting struts 38 and connecting bar 39 are secured as seen in Figures 1 and 2. In order to mount the massaging apparatus on a door, a novel supporting arrangement is provided. Referring to Figure 1, a hook member 40, shaped to fit over the conventional door, is provided with upper and lower hook portions 41 and 42. The hook member 40 is covered with a protecting jacket formed of resilient material to prevent marring of the door. Upper hook portion 41 is adapted to receive a rope loop 43 for general stretching exercises. Received in the lower hook portion 42 is a hanger member 44 having a freely rotatable bearing 45. Arranged to rotate with said bearing member 45 is a long strap member 46 having a hook member 47 at one end adapted to receive cross bar 39 of the massaging apparatus. The other end of the strap hangs freely and extends to the lower edge of the door as seen in Figure 1. A retaining pin, generally designated by the numeral 48, passes through two adjoining portions of the strap 46 and serves to hold the massaging apparatus in a fixed position. It is clearly apparent that as a result of this arrangement, the massaging apparatus can be vertically adjusted to any desired height. Clip members 49 having identifying means thereon may be mounted on the strap to indicate various adjusted positions of the massaging apparatus with respect to the body so that once the clip members are positioned, the exact location of the apparatus for massaging a particular portion of the body will always be known.

Referring to Figures 11 and 12 for a detailed showing of the retaining pin 48, the pin consists of a flat sheet of metal 50 having integrally formed ears 51 through which a pintle 52 passes. The pin 53 is mounted on said pintle and has a spring portion 54 bearing against the sheet 50 in such manner as to cause the sharp end of pin 53 to press towards member 50. The metal sheet 50 has no projections on its outer face to catch in the hair or contact other parts of the body during use of the massager.

Several accessories to be furnished with the massaging apparatus are shown in Figure 1. A wedge member 55 cooperates with the bottom edge of the door to hold the door in a fixed position with respect to the door jamb. A brace member 56 is also provided for cooperation with the door jamb 21 to enable the user of the massaging apparatus to press firmly against the door jamb without fear of injury to the hands. The brace member 56 comprises an L-shaped brace 57, the inner surface of which is covered with felt or the like to prevent marring of the door jamb,

and handle portions 58 secured thereto. The brace member 56 is a separate member and may be vertically spaced on the door jamb at the will of the user.

Although the present apparatus has been described in connection with detachable mounting on any door in the house, it is to be understood that the hook member 40 may be secured or mounted to any support other than a door. It is also to be understood that the massaging apparatus can be mounted on a stand or frame without sacrificing the numerous advantages thereof.

Referring to Figures 6 to 10 inclusive, I have shown a detachable massager for massaging the face, neck, scalp or other portions of the body not accessible for manipulation by the large massager. The detachable massager comprises a main frame portion 59 having grooves 60 formed in its upper and lower edges and a groove 61 formed in its front face. A U-shaped bracket 62 is mounted on the rear face of the frame 59 at its center by means of a threaded bolt 63 passing through the frame and bracket. A wing nut 64 cooperates with bolt 63 to hold the bracket and frame rigidly together, the construction being such as to permit rotational movement of the frame in a vertical plane about the bolt as an axis.

The two arms of U-shaped bracket 62 are provided with supporting members 66 adapted to be received in channel member 32. Supporting members 65 are connected to the arms of the bracket 62 by means of bolts 67 and wing nuts 68 which will permit frame 59 to be rotated about bolts 67 and locked in the desired position.

The detachable massager has mounted thereon a plurality of independent small rollers. Each roller comprises a frame bracket 69 having arms 70 slightly received in grooves 60 of frame member 59. Each roller element 71 is rotatably mounted to the frame bracket through screws 72. Each frame bracket 69 is provided with a spring element 73 receivable in groove 61. The spring element 73 bears against the rear surface of groove 61 thereby holding the brackets against free lateral movement although each of the brackets may be removed by sliding it out of the groove with pressure applied against the force of the spring. Each of the roller elements 71 is provided with a flexible jacket 74 held in place with a lacing member 75. These jackets are removable and any suitable securing means may be substituted for the lacing. In this connection it may be mentioned that similar removable jackets may be provided for the large rollers 33 and 34.

The operation of the reducing apparatus is as follows. The apparatus is mounted on the door as seen in Figure 1 with the detachable massager removed. In the position shown, the massager is ready to be used on the hips. The user will grip the bracket member 56 with either or both hands and by pressing against the rollers with the hips while engaging the door jamb with the bracket, the user is ready for the massaging operation. The massage is obtained by moving the hips across the rollers causing the rollers to rotate. Due to the difference in diameters of the rollers 33 and 34, a bumpy, spanking action is obtained making the massage considerably more effective than the ordinary kneading effect. The amount of pressure applied can be varied at the will of the user. After massaging

the hips, the apparatus can be raised or lowered for operating on the shoulders or the thighs. The apparatus is adjusted by merely removing the pin 48, raising or lowering the apparatus the desired amount and replacing the pin through adjoining parts of the strap to hold the apparatus in the adjusted position.

If it is desired to massage the bottom of the feet, the large massager can be removed from the strap and placed on the floor. The cutout portions 25 permit massaging of the feet without interference from the base portion.

When it is desired to massage other parts of the body that cannot be reached by the large massager, the small massager shown in Figures 6 to 10 is used. For example, if it is desired to massage the neck, the detachable massager is fitted to the large massager as previously explained. The wing nuts 68 are loosened and the frame 62 tilted until the arms of said frame member are at approximately 45 degrees from the horizontal. The wing nuts are then tightened and the rollers are ready for use on the neck. In the same manner, the detachable massager can be used on the face or any part of the body by merely adjusting the rollers to the proper position.

If it is desired to use only a single roller for massaging the scalp, the remaining rollers may easily be removed as previously described.

As shown in the drawings, a particular type of jacket is mounted on the rollers. If it is desired to use a jacket having a smoother surface or a rougher surface, or being made of harder or softer material, the original jacket may be removed and replaced with the jacket desired.

From the above description, it is readily apparent that the present apparatus is well designed to accomplish the objects and advantages set forth. It is obvious that various changes and modifications may be made in the details of construction and design of the above specifically described embodiment of this invention without departing from the spirit thereof, such changes being restricted only by the scope of the following claims.

Having thus described the invention, what is claimed is:

1. Massaging apparatus comprising a frame, a plurality of rollers revolubly mounted on said frame the axes of the rollers being substantially parallel to each other, said rollers being closely

adjacent each other, and the diameter of adjacent rollers varying in size to give a bumping action to a body rubbing against them.

2. Massaging apparatus comprising a frame, a plurality of rollers revolubly mounted on said frame the axes of the rollers being substantially parallel to each other, said rollers being closely adjacent each other, the diameters of adjacent rollers varying in size to give a bumping action to a body rubbing against them, and the frame having opposite cutout portions adjacent the outermost rollers at right angles to the axis of the rollers.

3. Massaging apparatus comprising a frame, a plurality of rollers revolubly mounted on said frame the axes of the rollers being substantially parallel to each other, said rollers being closely adjacent each other, the diameters of adjacent rollers varying in size to give a bumping action to a body rubbing against them, and means for mounting said frame in a vertical position.

4. Massaging apparatus comprising a frame, a plurality of rollers revolubly mounted on said frame the axes of the rollers being substantially parallel to each other, said rollers being closely adjacent each other, the diameters of adjacent rollers varying in size to give a bumping action to a body rubbing against them, means for mounting said frame in a vertical position, and means for adjusting the height of said frame.

5. Massaging apparatus comprising a frame, a plurality of rollers revolubly mounted on said frame and detachably secured thereto the axes of the rollers being substantially parallel to each other, said rollers being closely adjacent each other, and the diameters of adjacent rollers varying in size to give a bumping action to a body rubbing against them.

6. Massaging apparatus comprising a frame, a plurality of rollers revolubly mounted on said frame the axes of the rollers being substantially parallel to each other, said rollers being closely adjacent each other and having the diameters of adjacent rollers varying in size to give a bumping action to a body rubbing against them, the diameters of alternate rollers being the same.

7. Apparatus of the character described comprising a frame for receiving a plurality of rollers, and channel members on said frame for receiving an additional set of rollers.

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