June 21, 1932. A. ROOS 1,864,258

SELF MASSAGE APPARATUS

Filed Sept. 22, 1930

Fig. 1.

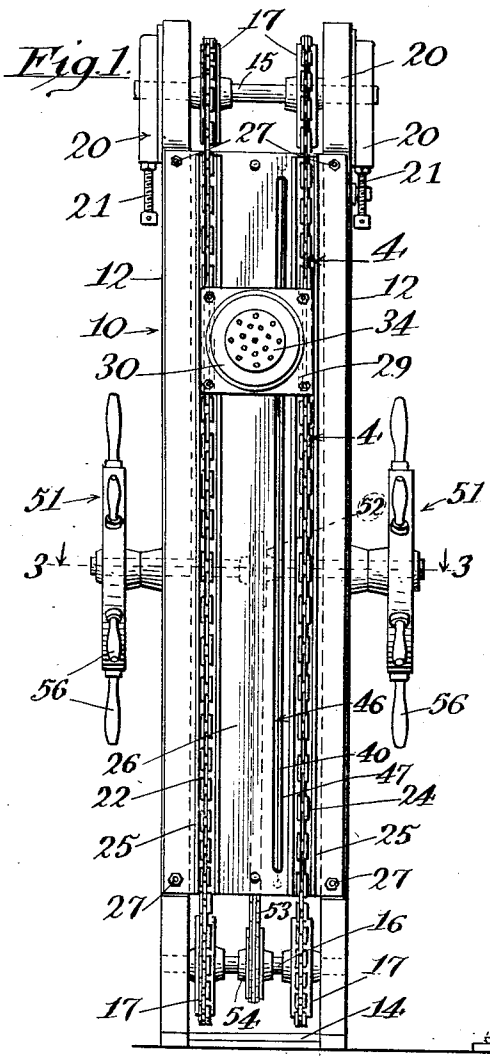


Fig. 2.

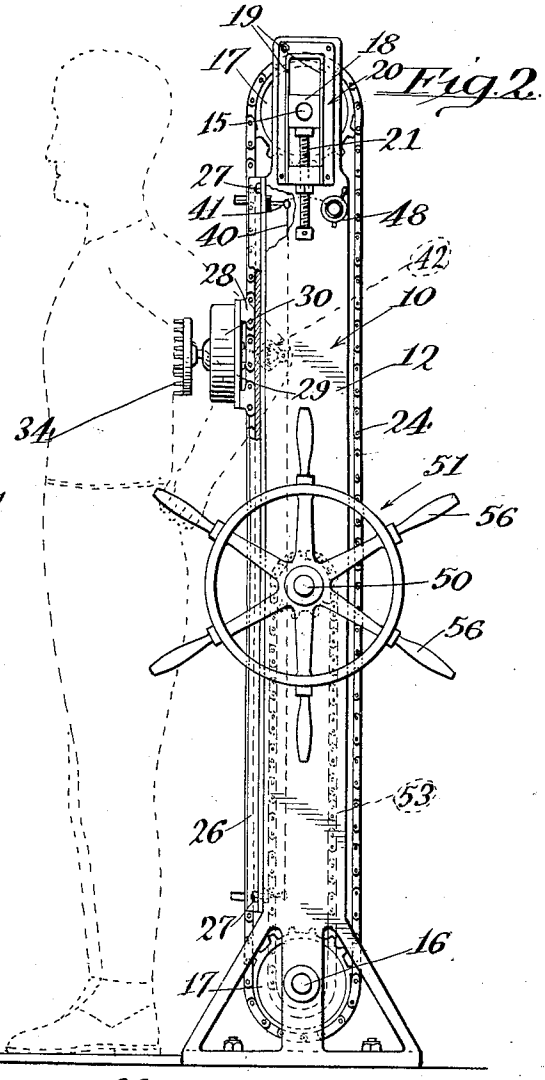
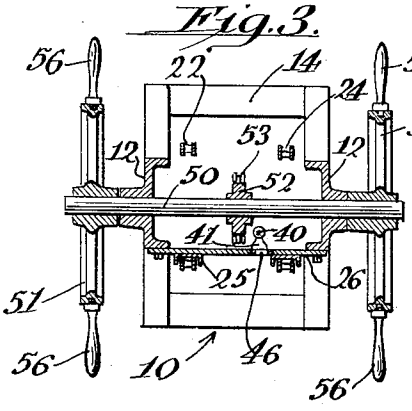


Fig. 3.



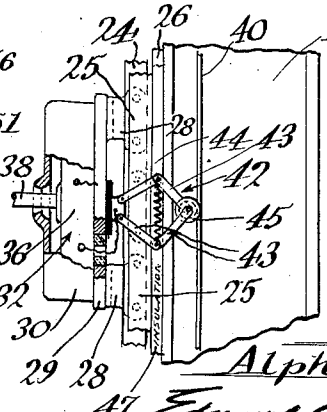


Fig. 4.

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UNITED STATES PATENT OFFICE

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SELF MASSAGE APPARATUS

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This invention relates more specifically to a massaging apparatus, and the principal object of the invention is to provide an apparatus of this character constructed in such a manner that a massaging operation may be applied to any part of the body.

Another object of the invention is to provide a massaging apparatus in which the applicator or massaging tool is adjustably mounted, and which may be reciprocated during a massaging operation by the person using the apparatus.

Briefly stated the invention consists of a frame which carries a pair of horizontally disposed shafts having sprockets thereon, and a counter shaft connected by suitable transmission to one of the aforesaid shafts. The electrically operated mechanism for the applicator being mounted in a casing secured to endless chains passing over the sprockets. The applicator being adjustable to apply massaging to any part of the body by turning of hand wheels secured to the counter shaft, said hand wheels also serving to reciprocate the applicator, if desired.

Other objects and advantages will be apparent from the following description of the accompanying drawing illustrating a practical embodiment of the invention in which—

Fig. 1 is a front elevation of the improved massaging apparatus.

Fig. 2 is a side elevation, parts being broken away and shown in section.

Fig. 3 is a horizontal section taken on line 3—3 of Fig. 1.

Fig. 4 is a detail section taken substantially on line 4—4 of Fig. 1 showing the electrical connections to the applicator operating mechanism.

Referring more specifically to the drawing, 10 generally designates a frame consisting of standards 12 secured to a base 14. Shafts 15 and 16 having pairs of sprockets 17 thereon are carried by the standards at the upper and lower ends thereof. The shaft 15 being journaled in blocks 18 slidably mounted in guide ways 19 of chain tensioning devices 20 secured to the upper ends of the standards 12, the blocks resting on the usual jack screws 21. Endless chains 22 and 24 pass over the sprockets 17, and are slidably mounted in channels 25 secured to a plate 26 connected by screws or the like 27 to the front faces of the standards.

Secured to the chains by suitable attachment links 28 is a member 29 upon which is mounted a casing 30 enclosing a mechanism 32 which serves to impart vibrating movement to the applicator or massaging tool 34.

Mechanism 32 may be of any standard construction including an electric motor 36 which imparts vibratory movement to the shaft 38 (through usual parts, not shown) to which the applicator is removably connected.

Motor 36 is energized through electrical transmission consisting of a conductor 40, the opposite ends of which are secured to insulators 41 mounted on the plate 26 and a sliding contact engaging the conductor, preferably a trolley 42.

Trolley 42 consists of interconnected links 43, the opposite ends of which are connected respectively to a bracket 44 secured to and insulated from the plate and to a wheel 45 engaging the conductor, the electrical circuits through the motor being completed by grounding one of the terminals to the member 29, the links extending through an elongated slot 46 formed in the plate, the inner walls of the slot being lined with insulation indicated at 47.

The motor is preferably controlled by a rheostat 48 mounted on the frame.

An important feature of this invention resides in means for adjusting the position of the applicator in order that massaging may be applied to any part of the body, and for reciprocating it, particularly the latter.

The above is accomplished by a shaft 50 journaled in the standards, and provided with hand wheels 51 on its outer ends, a sprocket 52 is mounted on the shaft and an endless chain 53 passes thereover and a sprocket 54 mounted on the shaft 16.

In operation, the person using the apparatus stands directly in front of it as indicated by dotted lines of Fig. 2, then adjusts the applicator by turning the hand wheel so that it will contact with the part of the body requiring massaging, the applica-

tor may then be reciprocated by rotating the hand wheels back and forth, the hand wheels being preferably provided with handles 56 for this purpose.

From the foregoing it will be seen that by reciprocating the applicator a very effective massaging operation may be accomplished.

I claim:

1. An apparatus of the character described comprising a frame having standards, a pair of horizontally disposed shafts journaled in said frame adjacent the upper and lower ends thereof, a pair of sprockets secured to each of said shafts, endless chains passing over said sprockets, a vibratory mechanism having a massaging applicator detachably secured thereto secured to said chains, a third shaft having a sprocket thereon and journaled in the standards of said frame, transmission connecting said third shaft to one of the aforesaid shafts, and hand wheels secured to said third shaft, whereby said vibratory mechanism may be adjusted and reciprocated upon manually turning of said wheels.

2. An apparatus of the character described comprising a frame having standards, a pair of horizontally disposed shafts journaled in said frame adjacent the upper and lower ends thereof, a pair of sprockets secured to each of said shafts, an endless chain passing over each of said sprockets, a vibratory mechanism having a massaging applicator detachably secured thereto secured to said pair of chains, a third shaft having a sprocket thereon journaled in the standards of said frame, an endless chain passing over the sprockets on said third shaft and a sprocket on the lowermost of the aforesaid pair of shafts and hand wheels secured to said third shaft, whereby said vibratory mechanism may be adjusted and reciprocated upon manually turning of said hand wheels.

In testimony whereof I affix my signature.

ALPHONSE ROOS.