Feb. 25, 1936. N. ORGITANO 2,032,303

EXERCISING MACHINE

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Fig. 1.

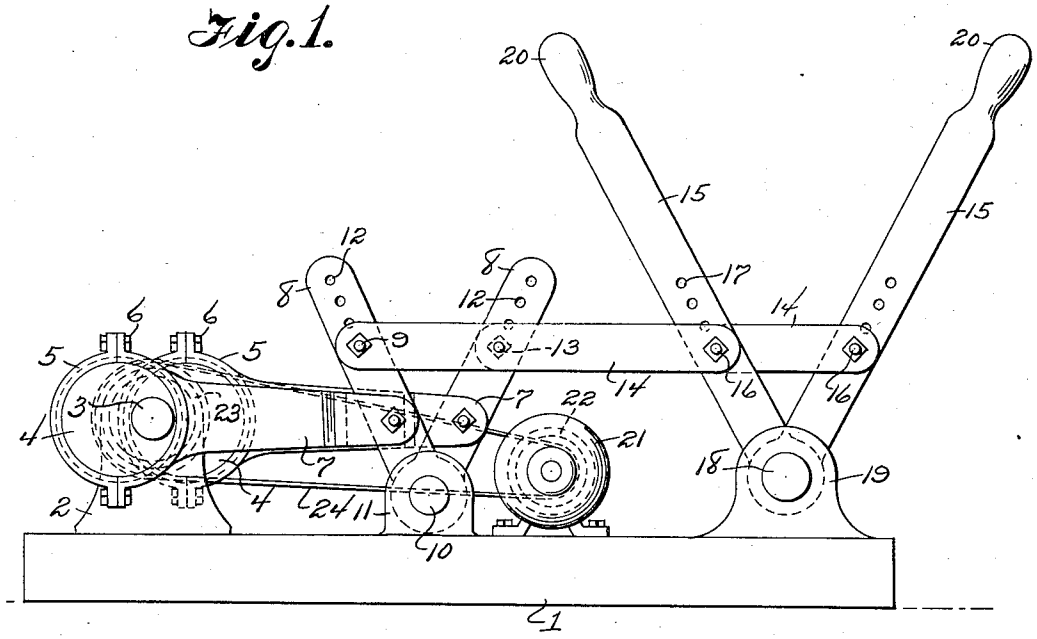
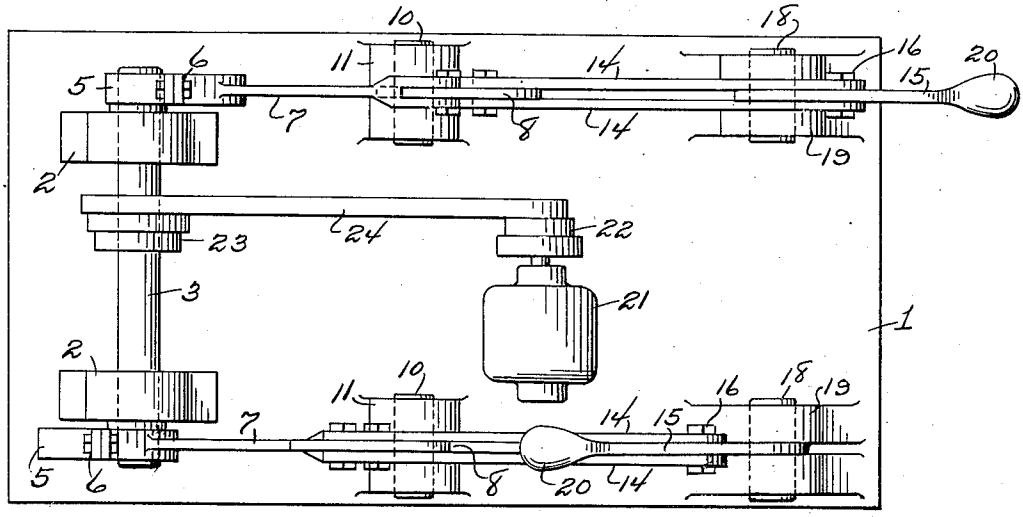


Fig. 2.



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EXERCISING MACHINE

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3 Claims. (Cl. 128—25)

This invention relates to exercising machines, and its general object is to provide a machine that is capable of bringing about muscular development of the entire body, as well as reduce excess fat, with very little effort on the part of the user, but extreme effort may be exerted, it depending upon the desires of the user and the results to be obtained.

A further object of the invention is to provide an exercising machine of the motor operated type, which is adjustable to vary the speed of the operation as well as the action thereof, to meet certain conditions and desires of the user.

Another object of the invention is to provide an exercising machine that is simple in construction, inexpensive to manufacture and extremely efficient in operation and service.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a side elevation of the machine which forms the subject matter of the present invention.

Figure 2 is a top plan view thereof.

Referring to the drawing in detail, the reference numeral 1 indicates the base of my machine which is relatively heavy in order to be self-supporting and as shown is preferably of rectangular configuration. While the base may be self-supporting, any well known means may be employed for securing the base fixed.

Secured to the base and rising from adjacent one of the ends thereof is a pair of bearing blocks 2, that have the ends of a shaft 3 journaled therein, and secured to the ends of the shaft to be eccentrically mounted thereon are disks 4 which extend in opposed directions with respect to each other as best shown in Figure 1.

Detachably secured to the peripheries of the disks 4 are semi-circular strap members 5 that are provided with apertured ears receiving bolt and nut connections 6, as shown. Formed on and extending from one of the strap members of each pair are arms 7 that are provided with bifurcated outer ends having openings arranged in the bifurcated portions to be pivotally secured to levers 8 through the instrumentality of bolt and nut connections 9. The levers 8 are formed on and rise from stub shafts 10 which are journaled in bearing blocks 11, the latter being fixed to the base 1 adjacent to the transverse center thereof and its outer side edges as best shown in Figure 2. The bearing blocks are slotted circumferentially to allow for the passage of the levers 8, and it will be apparent that these levers are mounted for rocking movement.

The bifurcated portions of the arms 7 are secured to the levers adjacent to the lower ends thereof, as shown in Figure 1, and the levers are provided with a plurality of openings 12 extending in longitudinal rows from adjacent their upper ends, and any one of the openings 12 of each of the levers is to receive the bolts of bolt and nut connections 13 for pivotally securing one of the ends of pairs of links 14 to the levers, while the opposite ends of the pairs of links are pivotally and adjustably secured to hand levers 15 through the medium of bolt and nut connections 16 and openings 17, the latter being disposed in the hand levers 15 in longitudinal rows, as shown in Figure 1.

The levers 15 have their lower ends formed on and rising from stub shafts 18 which are journaled in bearing blocks 19 fixed to the base 1, adjacent to one of the ends thereof, and the side edges, as clearly shown in Figure 2.

The levers 15 are relatively longer than the levers 8 and have reduced upper ends to provide hand gripping surfaces 20.

In the form as shown, I employ an electric motor 21 for operating the machine, and this motor is secured to the base 1. Fixed to the armature shaft of the motor is a stepped cone pulley 22 that cooperates with the stepped cone pulley 23 that is fixed to the shaft 3, and trained over the pulleys 22 and 23 is a belt 24. By employing the stepped cone pulleys, it will be apparent that the speed of the operation of the machine can be changed in accordance with the desires of the user.

From the above description and disclosure of the drawing, it will be obvious that I have provided an exercising machine that includes hand levers to be gripped by the user thereof and as the hand levers are reciprocated, the user may obtain exercise with very little effort, but extreme effort may be exerted, it depending upon the results to be obtained, therefore the machine can be used merely to reduce excess fat or to bring about muscular development throughout the entire body, as if an attempt is made to stop the reciprocation of the levers, it will be apparent

that practically all the muscles of the body can be brought into action.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:

1. An exercising machine comprising a base, a pair of hand levers pivotally secured to and rising from the base, hand gripping means at the upper ends of said hand levers, levers pivotally secured to the base, means for reciprocating the last mentioned levers in opposite directions, and links adjustably mounted and pivotally connecting the last mentioned levers with the hand levers to reciprocate and vary the movement of the latter.

2. An exercising machine comprising a base, a pair of hand levers pivotally secured and rising from the base, a shaft journaled with respect to the base, arms eccentrically mounted with respect to the shaft, levers pivotally mounted and rising from the base and having the arms pivotally connected thereto, and links adjustably secured to the last mentioned levers and the hand levers respectively for reciprocating the latter and to vary the throw thereof.

3. An exercising machine comprising a base, a pair of hand levers including grips and pivotally secured and rising from said base, a shaft journaled with respect to said base, means for rotating said shaft and including means to vary the speed thereof, disks eccentrically mounted on the shaft and extending in opposed directions with respect to each other, strap members surrounding and rotatably mounted on the disks, means of connection between said strap members and the hand levers to reciprocate the latter and including adjustable means to vary the throw of the hand levers.

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