

Jan. 17, 1939.

E. G. THOMPSON

2,144,206

EXERCISING DEVICE

Filed July 22, 1938

Fig. 1.

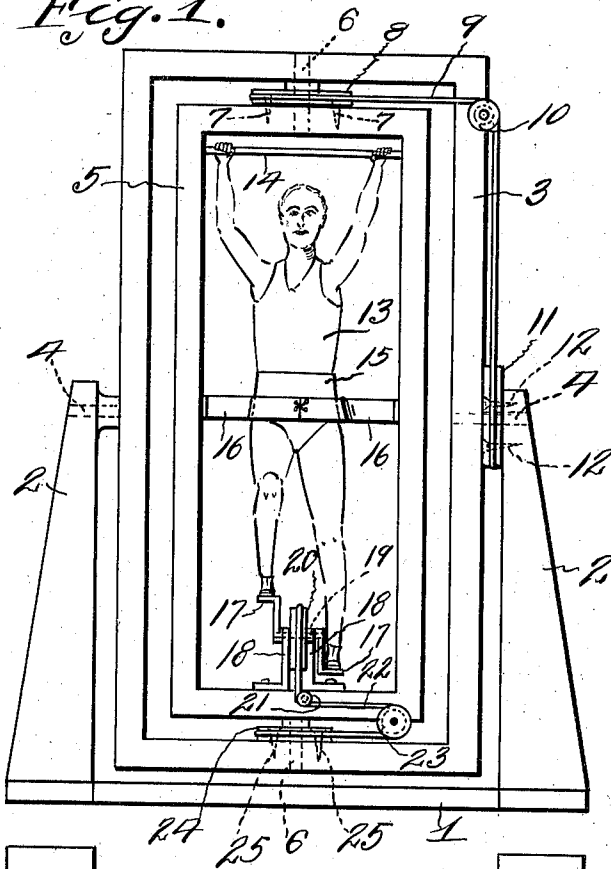


Fig. 2.

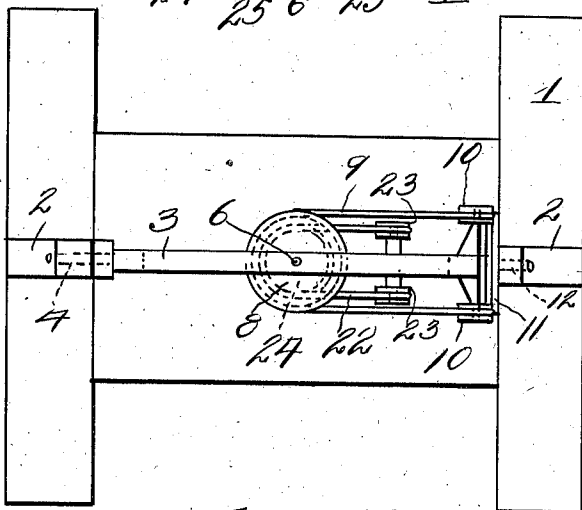
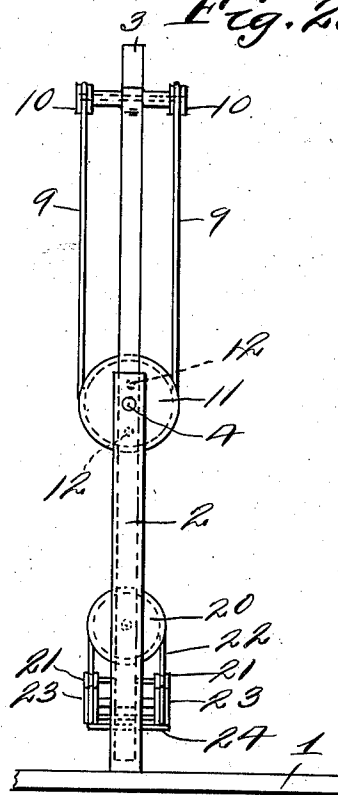


Fig. 3.

Inventor
E. G. Thompson

By *Philip A. Ferrell*
Attorney

UNITED STATES PATENT OFFICE

2,144,206

EXERCISING DEVICE

Early G. Thompson, Anniston, Ala.

Application July 22, 1938, Serial No. 220,775

4 Claims. (Cl. 272-73)

The invention relates to exercising devices and has for its object to provide a device of this kind comprising a supporting frame having pivotally mounted therein, on a horizontal axis, a rotatable frame provided with an auxiliary frame, pivoted in the rotatable frame on a vertical axis and in which the operator is positioned for operating belt and pulley connections between the rotatable frame and the auxiliary frame for causing the auxiliary frame to rotate on its axis. Also to provide belt and pulley connection between the auxiliary frame and the supporting stand for simultaneously rotating the rotatable frame, as the auxiliary frame is rotated.

A further object is to provide an exercising device comprising main and auxiliary frames, one within the other, and rotatable on axes at angles to each other by an operator within the auxiliary frame.

With the above and other objects in view the invention resides in the combination and arrangement of parts as hereinafter set forth, shown in the drawing, described and claimed, it being understood that changes in the precise embodiment of the invention may be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawing:

Figure 1 is a view in elevation of the exercising device.

Figure 2 is a side elevation of the exercising device.

Figure 3 is a top plan view.

Referring to the drawing, the numeral 1 designates the base of the supporting frame, and 2 uprights extending upwardly from opposite sides of the base. Disposed between the uprights 2 is the main rotating frame 3, which frame is provided with pintles 4 having bearings in the uprights 2.

Disposed within the main frame 3 is an auxiliary rotating frame 5, having pintles 6 at right angles to the pintles 4 and rotatably mounted in bearings in opposite sides of the main frame 3. During the operation of the device the main frame 3 rotates on a horizontal pivotal point, while the auxiliary frame 5 simultaneously rotates on an axis at a right angle to the axis of rotation of the main frame. Secured to one end of the auxiliary frame 5, by means of screws 7, is a pulley 8 over which extends an endless belt 9, which belt has its opposite sides positioned to extend outwardly and over the idle pulleys 10 and thence downwardly and over the under side

of the pulley 11, which is anchored to one of the supports 2 by means of screws 12.

It will be seen that as the auxiliary frame 5 is rotated on its pintles 6, the pulley 8 will rotate therewith and the endless belt 9, through its engagement with the stationary pulley 11, will cause the main frame 3 to rotate on a horizontal axis.

The auxiliary frame 5 is rotated by the operator 13, within the auxiliary frame. The operator places his hands on the cross bar 14 and is held in position by means of a belt 15 around the waist, and which belt is connected to the auxiliary frame by means of straps 16, so the feet of the operator may be placed on the pedals 17. The pedals 17 are carried by brackets 18 and the pedal shaft 19 is provided with a pulley 20. Extending over the pulley 20 and downwardly at opposite sides thereof and over idle pulleys 21 is an endless belt 22. The endless belt 22, at opposite sides of the auxiliary frame, extends outwardly, downwardly and inwardly over idle pulleys 23, and thence over a pulley 24 secured to the main frame 3 by means of screws 25, and on the axis of rotation of the auxiliary frame. It will be seen that as the operator rotates the pedals, the endless belt 22 will cause the auxiliary frame to rotate and the auxiliary frame, in turn through its belt connection 9 and pulleys 8 and 11, will cause the main frame 3 to simultaneously rotate, hence it will be seen that the operator, during an exercising operation, will assume different positions rotatably in a vertical transverse plane simultaneously with the rotation of the body.

From the above it will be seen that an exercising device is provided, which is simple in construction, and one whereby the pedaling exercise takes place during the axial rotation of the body, as well as the rotation of the body in a vertical transverse plane.

The invention having been set forth what is claimed as new and useful is:

1. An exercising device comprising a supporting frame, a rotatable main frame carried by the supporting frame, an auxiliary frame rotatably mounted within the main frame, means for supporting the operator within the auxiliary frame, a drive connection between the auxiliary frame and the supporting frame and so constructed and arranged to rotate the main frame when the auxiliary frame is rotated and means connecting the auxiliary frame and main frame and controlled by the operator within the auxiliary frame so constructed and arranged to ro-

tate the auxiliary frame within the main frame.

2. An exercising device comprising a supporting frame, a rotatable main frame within the supporting frame, an auxiliary rotatable frame within the main frame, belt and pulley connections between the auxiliary frame and supporting frame and so arranged and constructed to rotate the main frame when the auxiliary frame is rotated, belt and pulley connections between the auxiliary frame and the main frame and so arranged and constructed whereby the operator may rotate the auxiliary frame within the main frame.

3. A device as set forth in claim 2 wherein the last mentioned belt and pulley connection is provided with pedals adapted to be operated by the operator within the auxiliary frame.

4. A device as set forth in claim 2 including pedal means within the auxiliary frame for controlling the belt and pulley drive connection of the auxiliary frame to the main frame and means for supporting the body of the operator within the auxiliary frame.

EARLY G. THOMPSON.