Feb. 3, 1970 T. J. RAMSEY 3,493,229

JUMPING LOOP HAVING A CRANK ARM AND SUPPORT MEANS

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FIG. 1.

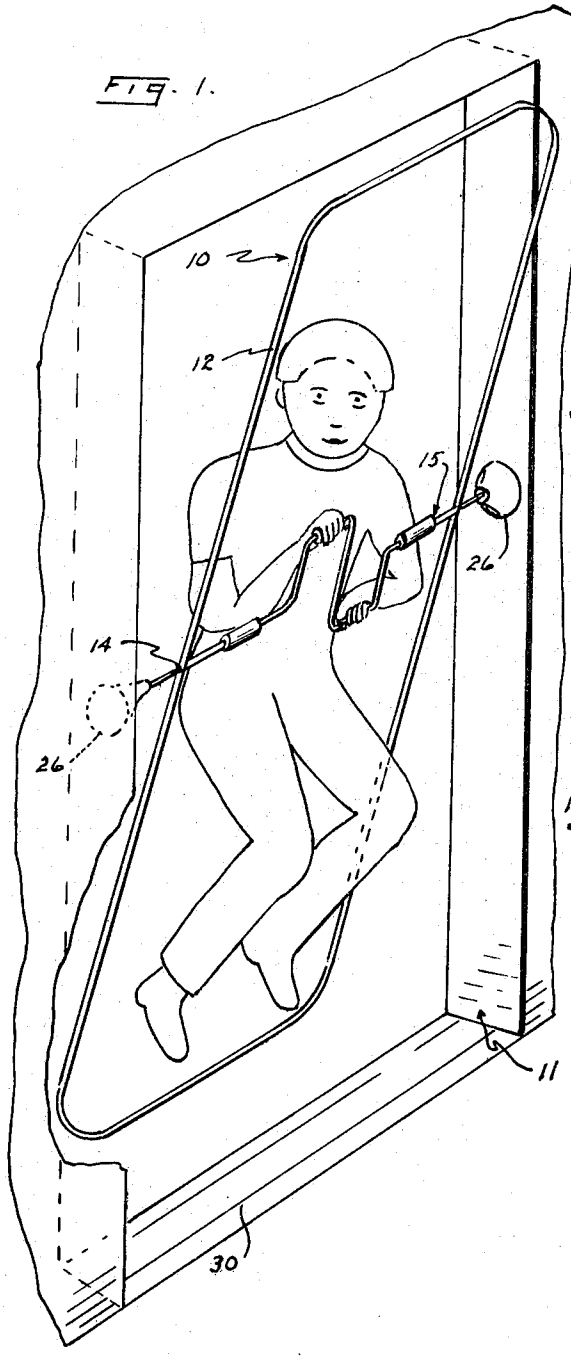
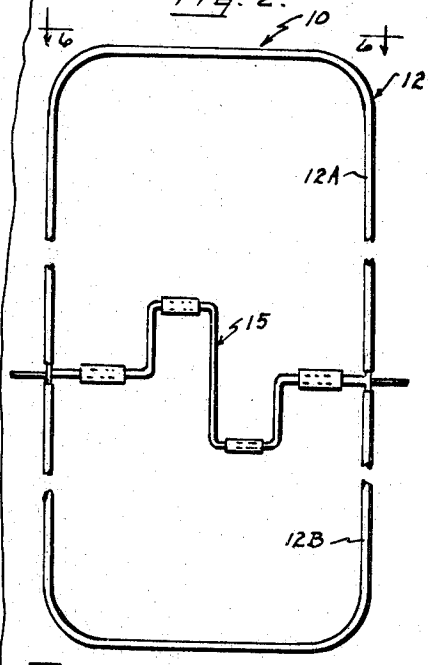


FIG. 2.



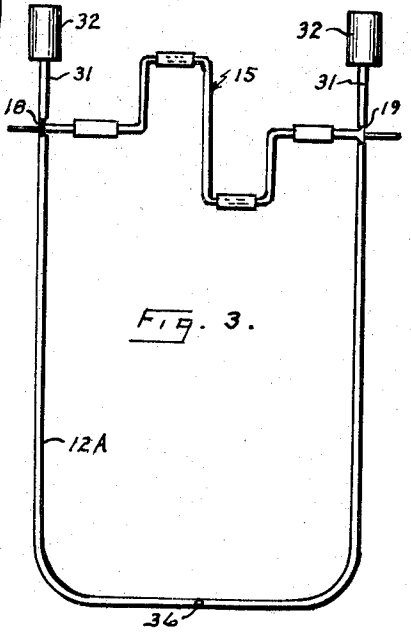


FIG. 3.

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FIG. 6.

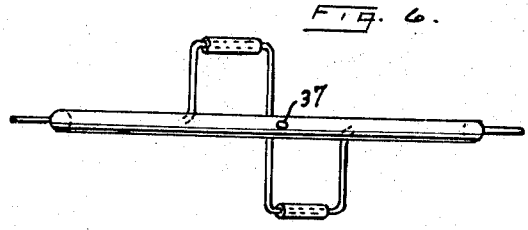


FIG. 4.

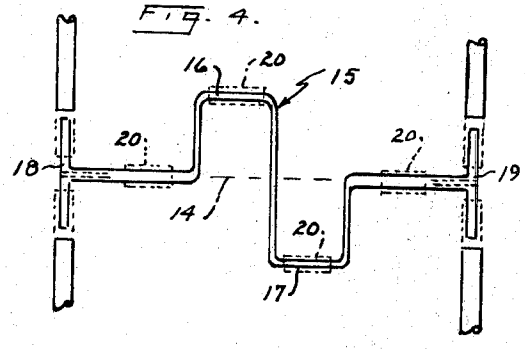


FIG. 5.

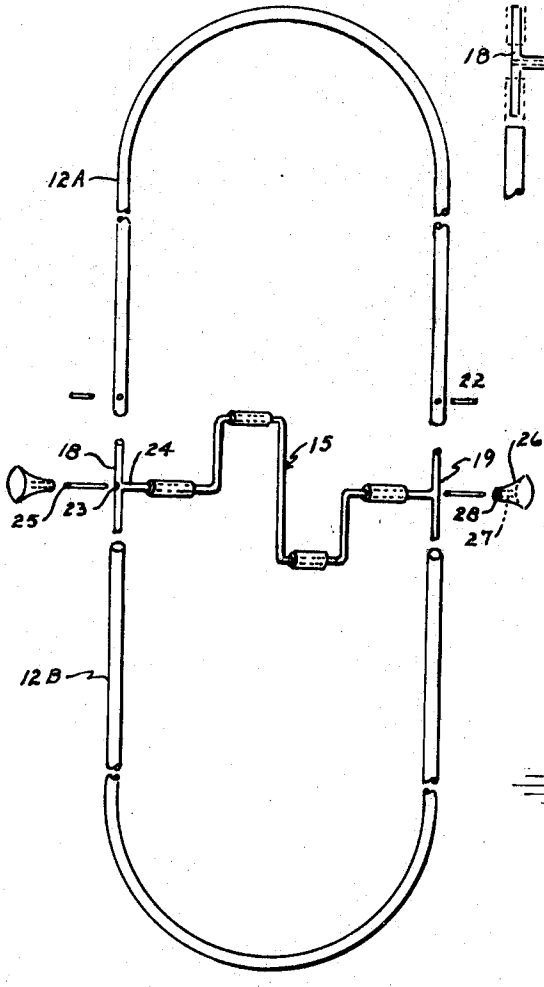
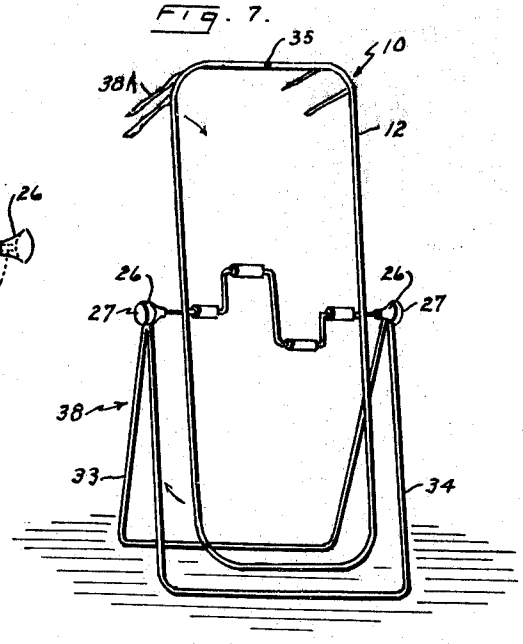


FIG. 7.



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JUMPING LOOP HAVING A CRANK ARM AND SUPPORT MEANS

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Int. Cl. A63b 5/22
U.S. Cl. 272—74 3 Claims

ABSTRACT OF THE DISCLOSURE

An exercising device in the form of a rotatable loop for jumping in which said loop is formed of a rigid frame that will surround the individual utilizing the device. The frame is provided with a crank arm at its central axis and provided with means on either side exteriorly of said frame to support said frame for rotation in a predetermined fixed position such as a doorway.

This invention relates to an exercising device and more particularly a rotatable jumping loop that may be supported upon a fixed center to be propelled by the hands while jumping the swinging loop.

Jumping ropes are generally a length of rope held at either end by the jumper and swung in a rotary fashion over the head and jumped as they pass under the jumper. With a loose rope, the jumper cannot exercise indoors as the clearance required for the rope is easily changed especially in direction and damage to items within the home may result.

It is an object of this invention to provide a jumping loop that is fairly rigid in form and is rotated by a pair of off-set handles rigidly affixed to said jumping loop and in which said jumping loop may be supported at its center for a balanced rotation of the loop when propelled by a jumper, to thus confine the swing of the loop of a definite pattern that will not endanger anyone or any object that is originally cleared from this pattern.

It is a further object of this invention to provide a jumping loop that is fairly rigid in form and is rotated by a pair of handles rigidly affixed to said jumping loop and in which said jumping loop may be supported at its center between the jambs of a doorway, for a balanced rotation of the loop when propelled by a jumper to thus confine the swing of the loop to a definite pattern within and either side of said doorway.

A still further object of this invention is to provide a jumping loop for exercise in which said loop is comprised of a knock down loop frame that is quickly and easily assembled to provide a fairly rigid loop with a pair of handles rigidly affixed to said loop for rotating same and in which said loop may be supported at its center for a balanced rotation by a jumper.

A still further object of this invention is to provide a jumping loop that is comprised of a tubular body that is fairly rigid in form and is rotated by a pair of off-set handles rigidly affixed to said jumping loop and in which said jumping loop may be supported at its center for a balanced rotation of the loop when propelled by a jumper and in which the outer extreme periphery of the loops may be provided with a wind pressure actuated whistle to be actuated when the loops are swinging.

Further objects of this invention may be apparent by reference to the accompanying detailed description and the drawings in which

FIG. 1 is a perspective illustration of the exercising device mounted in a doorway,

FIG. 2 is a front elevational view of the framework of the exercising device,

FIG. 3 is a front elevational view of a further embodiment of the invention,

FIG. 4 is a detailed view of the crank arm for actuating the device,

FIG. 5 is an exploded view of all elements of the device before assembly,

FIG. 6 is a top plan view of the device taken on line 6—6 of FIG. 2, and

FIG. 7 is a further embodiment of the device.

Referring to the drawings and particularly FIG. 1, there is illustrated an exercising device **10** mounted in a doorway **11**. The exercising device **10** is in the form of a rigid frame **12** formed as a loop pivotally mounted at its center **14** to be rotated by the individual utilizing the exercising device, the exercise performed being similar to that performed with a jumping rope. The frame **12** is provided with means to rotate frame **12**, the means being a crank arm **15** mounted at the center **14** of the loop. The crank arm **15** as illustrated in FIG. 4 comprises a one piece arm **15** that is bent to form two oppositely disposed handle areas **16** and **17**, both handle areas **16** and **17** being offset an equal distance from the center axis **14** and the arm **15** provided with T shaped ends **18** and **19**. Crank arm **15** may be provided with rotatable handles **20** mounted on the handle areas **16** and **17** as well as a pair of rotatable handles **20** mounted either side of the off-set portions of crank arm **15** as shown. With the crank arm **15** as described mounted to frame **12**, this requires frame **12** to be formed in two halves **12A** and **12B** and in tubular form so that, as illustrated in FIG. 5, the half **12A** may be mounted on the upper stem of the T ends **18** and **19** of the crank arm **15** while the lower half **12B** may be mounted to the lower stems of the T shaped ends **18** and **19**. The tubular loops **12A** and **12B** when mounted on T shaped ends **18** and **19** may be permanently affixed in any well known manner such as a tight friction fitting or with lock pins **22** inserted through the tube **12A** and **12B** as the case may be and through the stems of the T shaped ends **18** and **19** to retain the assembly in a fixed permanent relationship. Thus any rotation of crank **15** will propel the complete frame **12** in a similar rotation to the gyration of crank **15**. To maintain frame **12** on a fixed center or axis for rotation as illustrated in FIG. 1, the T shaped ends **18** and **19** are provided with an aperture **23** leading to a bore **24** within the crank arm **15** on either side of the crank. Dowel pins **25** are mounted through aperture **23** into bore **24** and protrude from either side of the frame **12** as illustrated in FIG. 1. A pair of suction cups **26** are provided. The suction cups **26** are formed with a solid end **27** into which there is a bore **28** so that pins **25** may be inserted in bore **28** to provide the central support for the rotation of frame **12**. It is apparent that the suction cups **26** may be mounted at a correct height so that the frame **12** will clear the floor or threshhold **30** when the frame **12** is rotated. As illustrated in FIG. 1, the individual utilzing the exercising device may stand upon the threshold **30** within frame **12** and with both hands upon crank **15** as illustrated, by rotating the crank **15**, the frame will similarly rotate and as the frame rotates the individual may jump as shown to provide a jumping device for exercise.

Referring to FIG. 3 there is illustrated a further embodiment of this invention in which the exercising device **10** is reduced to a half loop **12A** and the opposite side of the T shaped ends **18** and **19** of the crank shaft **15** are provided with a short tube **31** on which a weight **32** is mounted. The weights **32** provide a balance to the weight of loop **12A** so that during rotation of the crank **15** it is equally balanced to provide easy rotation and the ability to be stopped at any point due to a perfect balance. In this embodiment the individual exercising is of course able to jump at a much slower rate due to

having only one loop passing over the head and under the feet of the individual.

A still further embodiment of this invention is illustrated in FIG. 7 in which the exercising device **10** is mounted between the same suction cups **26** which are affixed to a circular disc **27**, which is the pivotal support for a stand **38**. The stand **38** is provided with a pair of supporting legs **33** and **34**. Thus with the stand **38** mounted as shown and the frame **12** mounted between the pivotal supports **27**, the device **10** may be similarly used in any desired location.

With the rotation of frame **12**, a whistling device **35** may be affixed or mounted within the upper and lower or the extreme surfaces of tubes **12A** and **12B**. The whistling device **35** may be in the form of a small aperture **36** in the face of the tube facing the direction of rotation, the aperture **36** leading to a second aperture **37** in the top of the tube and by blocking the tube either side of these apertures, the air entering aperture **36** will provide a whistling sound as it exits from aperture **37**. Thus the faster the individual rotates the device, the louder the whistling noise will be. Other decorative elements may be added to this device such as streamers **38A** attached to the frame **12** to flutter in the breeze as the frame is rotated.

It is to be noted that frame **12** may be a one piece frame with the crank **15** also formed integrally with the frame. However for ease of shipment and distribution, the frame **12** may also be a knocked down frame as illustrated in FIG. 5 that is easily assembled to provide an identical configuration or the ends **12A** and **12B** may be changed in their configuration, that is, the ends may be round or the ends may be squared off without departing from the spirit of this invention. It is also to be noted that the ends **12A** and **12B** may be cut off to provide a small exercising device for a small child or they may remain of a maximum length as long as they do not exceed the limitations of the doorway in which they are to be mounted. It is also to be noted that the tubular frame **12** may be formed of any of the well known light tubular elements such as plastic or aluminum or even a tubular textile as long as it provides a fairly rigid form that will retain its form and although a particular configuration of hand crank **15** has been illustrated, any form of crank whether attached at an offset position to tubes **12A** and **12B** or as described herein may be used without departing from the spirit of this

invention and further, although a pair of suction cups have been suggested as means of retaining the exercising frame in a central position in a doorway it is to be noted that instead of the suction cups, a pair of rods may be inserted into the jamb of the doorway to similarly provide the support and likewise a pair of fixtures in place of the suction cups may be mounted between two jambs or two supports or any similar spacing between other equipment to permit the mounting of this device to be utilized as described without departing from the spirit of this invention and this invention shall be limited only by the appended claims.

What is claimed is:

1. An exercising device in the form of a rotatable loop for jumping which includes a frame that will surround the individual utilizing the device said frame being divided into two equal loops, said frame provided with a crank arm at its central axis, said frame rotatable about the central axis by said crank arm, means exteriorly of said frame on each side thereof supporting said frame for rotation by said crank arm, a pair of suction cups operatively connected to said means to retain said device at a desired height in a doorway for rotation.

2. In a device according to claim **1** in which one of said loops is removed to provide a single loop that is rotatable for jumping exercise and in which said loop is counter balanced by weight on the opposite side of said crank arm.

3. In a device according to claim **1** including a stand having a pair of supports to retain said device at a desired height and said exercising device operatively connected to said stand for rotation.

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