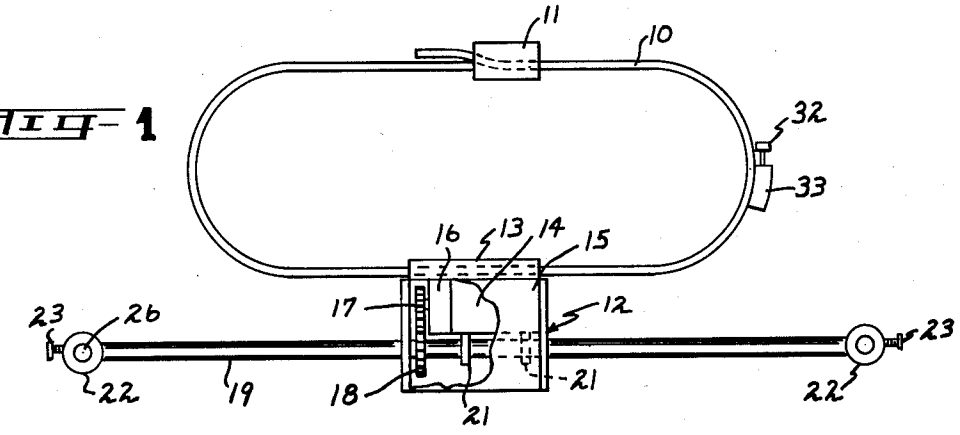
Oct. 30, 1962 R. L. BURR 3,061,307

JUMP ROPE

Filed Aug. 25, 1960

Fig. 1



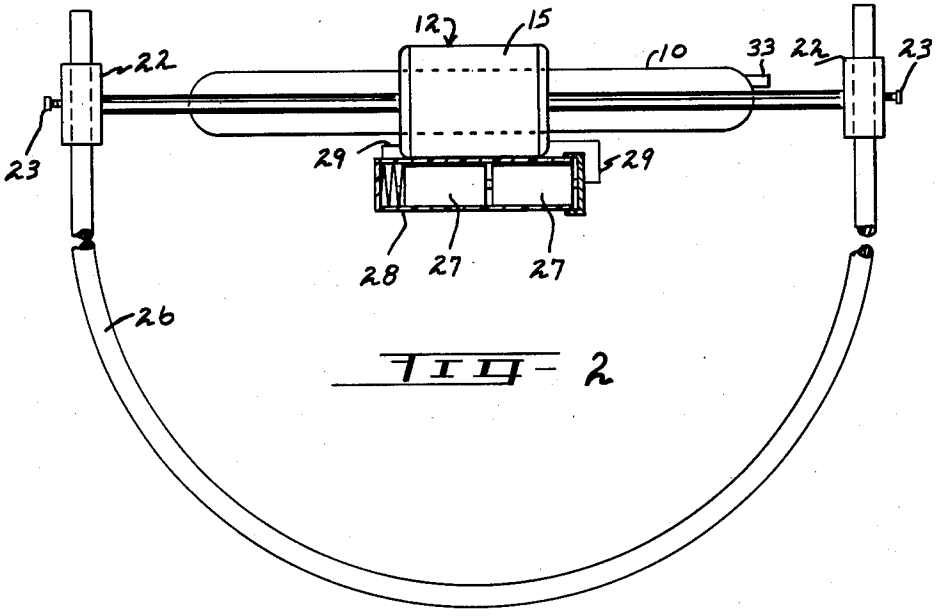
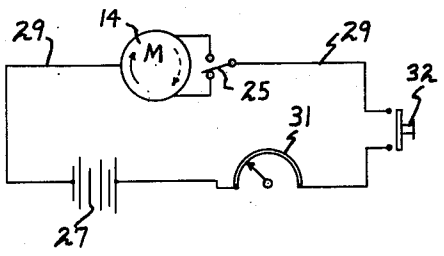




Fig. 2

Fig. 3




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United States Patent Office 3,061,307 Patented Oct. 30, 1962



3,061,307

# JUMP ROPE

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Filed Aug. 25, 1960, Ser. No. 51,832
3 Claims. (Cl. 272—75)

This invention relates to a jump rope and more particularly to a mechanical jump rope in which means to rotate the jump rope about the body of a person is provided.

It is an object of the present invention to provide means to rotate a jump rope about the body of a jumper without the jumper having to exert any effort whatsoever in turning the jump rope.

Another object of my invention is to provide means to rotate a jump rope about the body of a person which means is secured to the body of the jumper with the rope rotating in a generally vertical plane about both the drive means for the rope and the body of the jumper.

A more detailed object of the present invention is to provide a mechanical jump rope having a motor secured to the body of a jumper by a belt with a double ended shaft extending from the motor beyond the sides of a jumper, and a rope secured to the ends of the shaft whereby upon energizing the motor, the rope forms a loop about the body of the jumper.

My invention is shown in the accompanying drawing, forming a part of this application, in which:

FIG. 1 is a top plan view of my mechanical jump rope secured to a belt adapted to be positioned about the body of a jumper;

FIG. 2 is a rear elevational view of the mechanical jump rope shown in FIG. 1 with a portion thereof shown in section; and,

FIG. 3 is a schematic view of the electrical system for driving the jump rope.

Referring now to the drawing for a better understanding of my invention I show a belt **10** which may be secured about the body of a jumper or user of the jump rope by a buckle **11**. Secured to belt **10** is a power pack indicated generally by the numeral **12**. Power pack **12** preferably has a cushioned rubber portion **13** disposed against the body of a user or jumper.

Power pack unit **12** comprises a reversible variable speed motor **14** which drives gear box **16**, all of which is enclosed in housing **15** which is partially broken away in FIG. 1. Output gear **17** of gear box **16** drives a spur gear **18** that is secured to a shaft **19**. Motor **14** has a pair of bearings **21** secured thereto in which shaft **19** rotates upon energizing of motor **14**. Shaft **19** preferably extends around eighteen inches from either side of motor **14** and beyond the sides of the jumper. Secured to each end of shaft **19** is a socket **22** having a set screw **23**. A flexible member, such as a jump rope **26**, extends between sockets **22** and is secured therein by adjustment of set screws **23**. Thus, upon rotation of shaft **19**, rope **26** moves in a vertical plane and is of a sufficient length to extend about the head and feet of a jumper as the rope rotates.

To drive motor **14** batteries **27** are provided and are housed in a plastic case **28** secured to the underside of housing **15**. Lines **29** connect batteries **27** to motor **14** for energizing motor **14**. To adjust the speed of variable speed motor **14**, a rheostat **31** is placed in circuit with



motor **14** and adjustment of rheostat **31** thereby varies the speed of motor **14**. To energize motor **14**, a push button **32** is secured to a side of belt **10** by holder **33**. Upon depression of button **32**, motor **14** is energized to rotate shaft **19**. A second push button **25** is placed in series with motor **14** to reverse the direction of motor **14** and thereby reverse the direction of jump rope **26**. Push button **25** is a double pole switch and may be positioned adjacent motor **14** in easy reach of the jumper so that the direction of the jump rope may be reversed.

Belt **10** may be of a plastic or leather material and is adjustable to different sizes. The position of belt **10** on the body of a jumper will determine the direction of the circle made by rope **26** as it revolves about the jumper. Since motor **14** is a reversible type motor, rope **26** can revolve about the jumper in either a clockwise or a counterclockwise direction. Further, the belt can revolve from the side of the jumper as well as from the back or front thereof. To allow my invention to be used for persons of all heights, rope **26** may be lengthened or shortened by adjustment of one of the set screws **23**. The rope is formed of a relatively stiff material so that a true loop form is maintained while the rope is rotated.

From the foregoing, it should be understood that I have provided means to rotate the jump rope about the body of a jumper without the jumper having to exert any effort whatsoever in turning the jump rope. The drive means to turn the jump rope is secured directly to the body of the jumper and the rope rotates in a generally vertical plane about the body of the jumper and about the drive means for the jump rope.

While I have shown my invention in but one form, it will be obvious to those skilled in the art that it is not so limited but is susceptible of various changes and modifications without departing from the spirit thereof, and I desire, therefore, that only such limitations shall be placed thereupon as are specifically set forth in the appended claims.

What I claim is:

1. A jump rope adapted to be rotated automatically in a generally vertical plane about the body of a jumper comprising an electric motor, a belt for securing the electric motor to the body of a jumper, a battery connected to said motor to supply electrical energy thereto, a straight double ended shaft carried and driven by said motor, said shaft adapted to extend generally horizontally beyond the body of the jumper, and a rope secured to and connecting the ends of said shaft and of a length sufficient to form a loop about the body of a jumper whereby upon energizing the motor the rope rotates in a generally vertical plane about both the motor and the body of a jumper.

2. A jump rope adapted to be rotated automatically about the body of a jumper comprising an electric motor, a belt for securing the electric motor to the body of a jumper, a battery connected in series to said motor to supply electrical energy thereto, a straight double ended shaft carried and driven by said motor, a rheostat in circuit with said motor and said battery and adjustable to vary the speed of said motor and thereby the speed of rotation of said shaft, a manual switch to close the circuit to energize the motor and thereby rotate said shaft, said shaft adapted to extend generally horizontally beyond the body of the jumper, and a rope secured to the ends of said shaft of a length sufficient to form a loop about the

body of a jumper whereby upon energizing the motor the rope rotates in a generally vertical plane about the body of a jumper.

3. The jump rope defined in claim 2 in which a socket is mounted on each end of the shaft to secure the rope, and a set screw is mounted on each socket to secure the rope in the socket and permit the length of the rope to be easily adjusted.



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