United States Patent [19]

Beckish

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[54] **GOLF SWING TRAINING DEVICE**

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[52] **U.S. Cl.** ..... **273/191 A**

[51] **Int. Cl.** **A63b 69/36**

[58] **Field of Search** ..... 273/183, 186, 191, 192; 35/29 A

[56] **References Cited**

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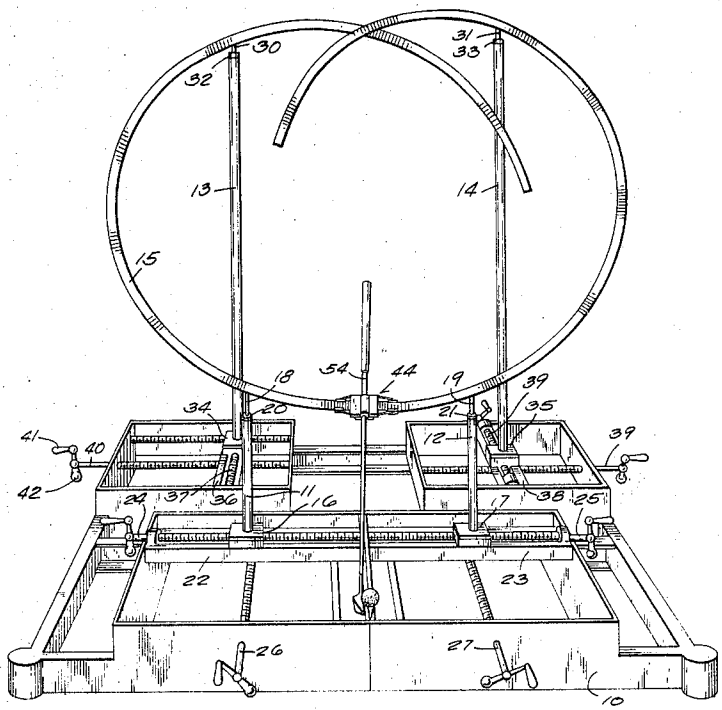
[57] **ABSTRACT**

A golf club is pivotally connected to a swing guide mechanism which is maintained in contact with an arcuate track defining a desired golf club swing path. The mechanism includes spring-biased components. The track is supported on vertical standards which are adapted to be moved along each of two intersecting horizontal axes. Manually operable threaded rods may be used to move the standards horizontally. The arcuate track includes at the central lowest point thereof a portion formed on a horizontal plane.

7 Claims, 5 Drawing Figures



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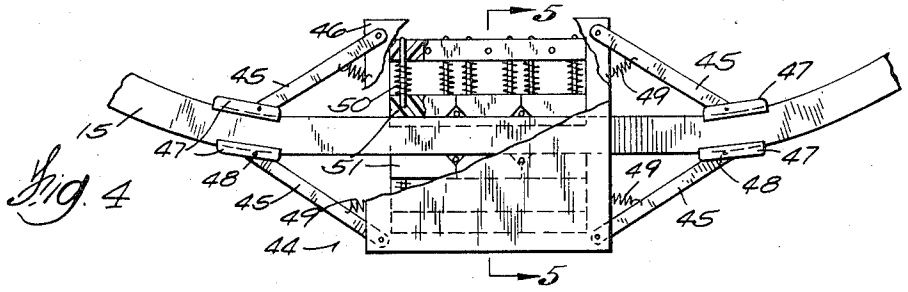

Fig. 4

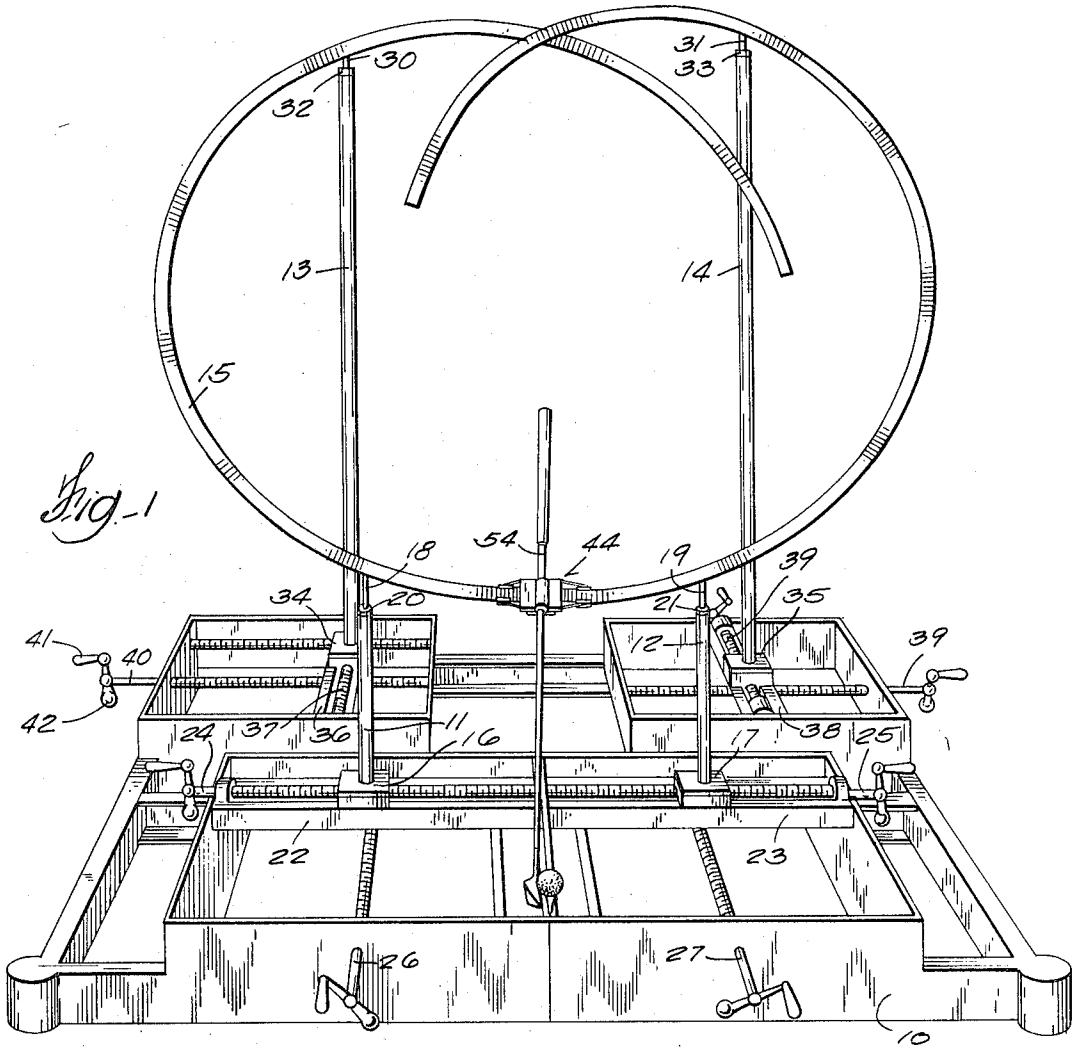

Fig. 1

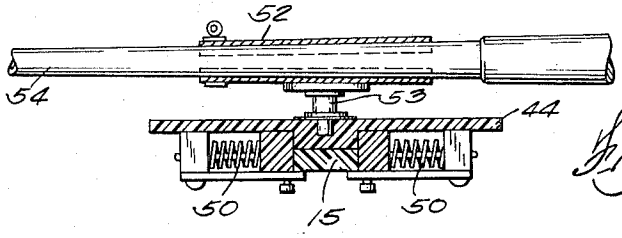

Fig. 5

Fig. 2

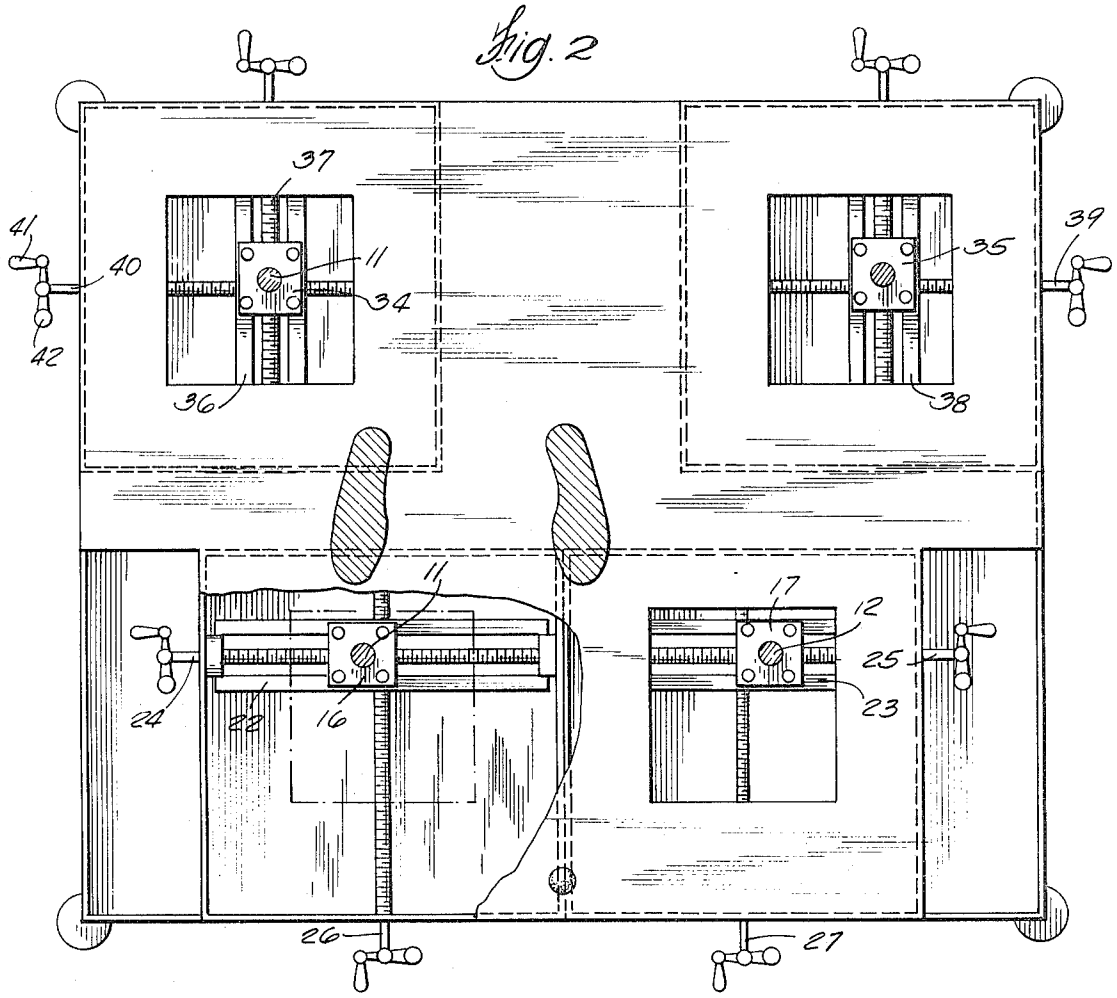
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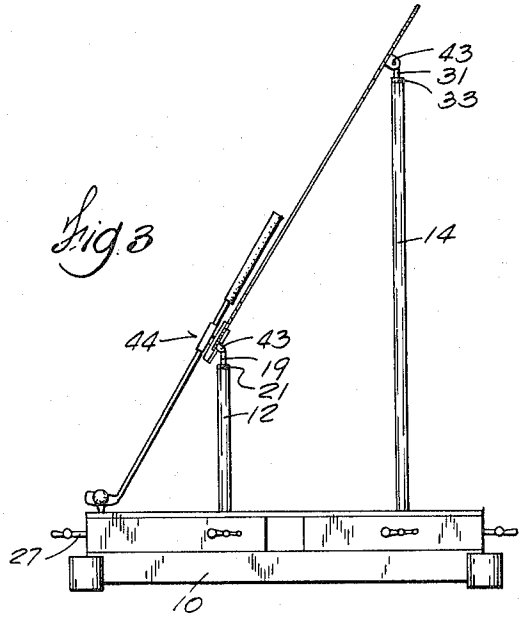
Fig. 3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GOLF SWING TRAINING DEVICE

SUMMARY OF THE INVENTION

A golf swing training device including a base frame, a plurality of pairs of manually operable and threaded rods crossed at right angles to move universally horizontally a plurality of base members and vertical standards fixed therein to adjust an ovate ellipsoidal arcuate and partially plane track, members within the standards attached to the track for vertical adjustment of all or portions of the latter to compensate for the height and physical frame of a trainee being instructed with the device.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 is a perspective view taken from the front of a golf swing training device embodying the invention.

FIG. 2 is a plan view of the base of the device and illustrates the adjustment mechanism utilized in universal horizontal movement of the blocks and standards carrying the golf swing guide track.

FIG. 3 is a side view partly in section and partly in elevation.

FIG. 4 is a fragmentary view of the track and the spring-biased guide mechanism.

FIG. 5 is a fragmentary view of a golf club as held in a clamp connected by swivel means to the guide and the track.

DETAILED DESCRIPTION

A composite base frame **10** supports four standards, **11, 12, 13** and **14,** which in turn support a golf swing track **15.** The front standards, **11** and **12,** are relatively short and are vertically fixed in square blocks **16** and **17.**

The standards **11** and **12** have internal telescoping rods **18** and **19,** each of which may be adjusted upwardly and releasably secured by the lock nuts **20** and **21.**

The blocks **16** and **17** are transversely movable in the channel means **22** and **23** by the manually operable threaded elements **24** and **25.** The channels **22** and **23** are moved to the front or to the rear by the manually operable threaded rods **26** and **27.**

The standards **13** and **14** are relatively tall supports for the golf swing track **15** and have inner rods **30** and **31** which may be adjusted upwardly and releasably secured by the lock nuts **32** and **33.** The standards **13** and **14** are fixed vertically in the blocks **34** and **35.** Block **34** is adjustable from front to rear in the channel **36** by the threaded rod **37,** and block **35** is adjustable similarly in channel **38** by the threaded means **39.**

The channel **36** is adjustable transversely by the threaded rod **40** actuated by the crank handle **41** with its counterweight **42.**

In FIG. **3** the vertically adjustable rods **19** and **31** are connected to track **15** by means **43,** a pivot member.

In FIG. **4,** the guide mechanism **44** includes four arms **45** pivoted to the plate **46** with runners **47** pivoted at **48** and yieldingly held in contact with track **15** by the biased springs **49.** The guide mechanism **44** has a plurality of internal springs **50** engaged with track contact elements **51** yieldable to the contour of the track **15.**

In FIG. **5,** A C clamp **52** mounted on a swivel **53** holds a golf club **54.** The swivel **53** is connected to the guide mechanism **44.**

In use, a golf club **54** is thus engaged with the guide mechanism **44.** A trainee swings the club backwardly and forwardly with and without the machine. The trainer then adjusts the device with regard to proper positioning and the height and frame structure of the trainee to arrive at an ideal and suitable swing orbit for the trainee, and when the correct adjustment has been made, the trainee repeats the swing with the device until he habitually conforms to the correct movement.

Having thus described the invention, what is claimed and desired to be secured by Letters Patent of the United States, is:

1. A golf swing training device including a base frame, a plurality of blocks mounted for horizontal movement in said base frame, the blocks slidable in channels for to and fro movement in one direction, manually operable threaded rods engaged in said channels and blocks for moving the blocks in said one direction, and manually operable threaded rods disposed in said base frame at right angles to the channel rods for moving said channels at right angles to the channel rods, vertical standards fixed on said blocks, vertical rods in the standards movable vertically for height adjustment, pivot fittings at the top of said rods, an arcuate open end golf swing track fixed on said pivot fittings, and a biased spring guide mechanism engaged on said track.

2. A device as in claim **1,** and a portion of said track at the central lowest point thereof formed on a horizontal plane to accommodate the snap of wrist action in movement to and from the plane portion and the arcuate portions of said track.

3. A device as in claim **1,** and a swivel fixed to the swing guide mechanism, a C clamp on the swivel, and releasable means on the C clamp for retaining the shaft of a golf club while in use with the training device.

4. A device as in claim **1** wherein said swing guide mechanism includes a pair of spring-biased arms at each end thereof, pivotable and a slide on the end of each arm adapted to bear on the track of the device.

5. A device as in claim **1** wherein said swing guide mechanism includes a plurality of spring-pressed elements centrally thereof disposed to bear on each edge of the arcuate track.

6. A golf swing training device including a base frame, a track, a plurality of standards, means pivotally connecting said standards to said track, support means for each of said standards, adjustment means for moving, each of said support means horizontally and independently along each of two intersecting horizontal axes to afford adjustment of the path defined by said track, and guide means movable on said track and adapted to connect a golf club shank to said track to afford quided movement of the golf club.

7. A device in accordance with claim **6** in which said support means for each of said standards comprises a block and said adjustment means comprises a channel member for guiding movement of said block in one direction, means for moving said block in said channel member, means on said base for guiding movement of said channel member in a second direction at right angles to the longitudinal axis of said channel member and means for moving said channel member and said block in said second direction.

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