PATENT REQUEST: STANDARD PATENT / PATENT OF ADDITION

I / We, being the person(s) identified below as the Applicant, request the grant of a patent to the person identified below as the Nominated Person, for an invention described in the accompanying standard complete specification.

Full application details follow.

<table>
<thead>
<tr>
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| [54] Invention Title  | PORTABLE GOLF PRACTICE DEVICE USING REAL GOLF BALLS |

| [72] Name(s) of actual inventor(s) | NAPOLEON TOQUERLO & CHAD TOQUERLO |

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ASSOCIATED PROVISIONAL APPLICATION(S) DETAILS

| [60] Application Number(s) and Date(s) | No: PL6072 Date: 4 DECEMBER 1992 |

BASIC CONVENTION APPLICATION(S) DETAILS

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DIVISIONAL APPLICATION DETAILS

| [62] Original application number | |

PARENT INVENTION DETAILS (Patent of Addition requests only)

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<td>Drawing number recommended to accompany the abstract</td>
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(Signature) (Date)
NOTICE OF ENTITLEMENT
(To be filed before acceptance)

I/We, NAPOLEON TOQUELO, ACN/ARBN 47 HODGSON ST. TUANT HILL WA 6060

being the applicant in respect of Application No. , state the following:

Part 1 - Must be completed FOR ALL APPLICATIONS.

The person(s) nominated for the grant of the patent:

*is *are the actual inventor(s)

or

*has entitlement from the actual inventor(s)

(eg by assignment, by mesne assignment, as legal representative of ..., etc)

Part 2 - Must be completed IF THE APPLICATION IS ASSOCIATED with one or more PROVISIONAL APPLICATIONS.

The person(s) nominated for the grant of the patent:

*is *are the applicant(s) of the provisional application(s) listed on the patent request form

or PROVISIONAL PATENT APPLICATION NO P60/72 (SEE ATTACH.) has entitlement to make a request under Section 113 in relation to the provisional application(s) listed on the patent request form

(eg by assignment, by agreement, etc)

Signature 24 NOVEMBER 1993

(Date)

(If the applicant is a Company or other legal entity, also indicate the name and standing of the authorized signatory.)

* Omit/Delete if not appropriate

Note: Use form P/00/008b where details for PCT, convention priority, microorganism deposit, additional or divisional application, are required.
A portable golf practice device is disclosed. The device. It can be seen that the Portable Golf Practice Device Using Real Golf Balls according to this invention comprise of the 1-golf-ball, the 2-string, the 3-weight-ball, the set of tee which consist of the 4-tee, 5-tee-string, and the 6-tee-weight-ball. This invention is a device used to practice golf swing. A real golf ball is used as the practice ball. You need a real golf club to play this device. Any club like woods, irons and wedge can be used. It is also portable and can be played with in a clear area the size of a tennis court eg backyard and parks. Safety devices to protect the user and its environ is incorporated in the design.
Invention Title: Portable Golf Practice Device
Using Real Golf Balls

The following statement is a full description of this invention, including the best method of performing it known to me:

This invention is a device used to practice golf swing. A real golf ball is used as a practice ball. You need a real golf club to play this device. Any club like woods, irons and wedges can be used.

More detailed description of the invention is in the following pages.
This invention is a device used to practice golf swing. A real golf ball is used as the practice ball. You need a real golf club to play this device. Any club like woods, irons and wedge can be used.

There are many golf practice devices but few uses real golf balls as the practice ball.

a) Practice devices using real golf balls relies on nets to catch the balls. This is not portable and does not always work. In time, the net gets worn and the balls slip the net. There is also the problem of directing the golf-balls to the net specially with beginners who have problem even hitting the ball.

b) There are experiments to attach the golf ball to a string, but were not successful because of safety consideration. It is not safe because the ball rebounds to hit the person using it. By repeated use, the string will break because it does not have the characteristics to sustain repeated shots. The spin created by the golf ball in flight also strains the sting and causes it to break.
c) One other option is to practice in an open space. You would need a large open space like a public park. The problem is it is not safe for other people using the park. For this reason, it is not allowed to play golf in a public park.

d) In the end, the only reasonable option is to go to a driving range. At times this is not convenient because you have to be physically be there. In other words it is not portable. Also, they close at night so if you want to try out a golf tip from a video or magazine right now, you have a problem. In other words, the driving range is not always convenient.

This Invention

With some limits, this invention attempts to solve the problems in a,b,c, and d. Because it is portable, it offers the option to golfers to practice with real balls any time, and almost anywhere.

This invention consist of 1-golf-ball, 2-string, 3-weight-ball, 4-set of tee.
1- The golf-ball is a specially designed golf ball for this invention. It is different from a commercially available balls in two respects. It is pre-drilled to make the threading of the string fast and easy. Most important is that they have known rating. Rating, in this invention, means the number of repetitive shots a golf ball can sustain before it breaks. However, any brand of commercially available golf ball can be used in place. Various brands were tested and the finding is that almost all golf balls with surlyn covers and plastic cores are suitable. Extreme care is needed in rating the commercial balls because the rating is matched with the durability of the string for safety purposes. If the match of the rating is correct, the ball breaks first before the string breaks. This safety device tells the user when to replace the golf-ball and string set with a new one. This built-in mechanism (Safety mechanism No 1) of this invention is incorporated in the golf-ball.

2- The string can be made of carbon fibre, plastic fibre, nylon fibre or any other synthetic and natural fibres, or blend of these materials. The string must have the desired characteristics of strength, durability, flexibility, elasticity, to sustain repetitive shots with out breaking (Safety mechanism No 2). It must be light weight, light bulk and of certain lengths to provide a good simulation of the shot as if there were no string attached. By good simulation we mean the feel of the ball, the height and the direction of the shot must be the same as in any unrestrained shot.
The string is attached to the golf ball by threading it through the pre-drilled holes. The string can have materials, manner of manufacture and devices incorporated in it to be able to deal with the spin created by the golf ball in flight. It must be able out-last the life of the golf-ball. This built-in feature (Safety mechanism No 3) of this invention is incorporated in the string.

The string is attached to the golf-ball and the weight ball. 3- The weight-ball can be made of any suitable material like caste metal, moulded plastics, rubber, wood, cement, various kinds of polymer products, and other natural and synthetic materials. It is spherical in shape.

The weight-ball must be of a certain weight to provide the desired balance compensating to break and absorb the shock generated by the shot. A heavy ball, for example will produce a greater tension on the string which causes it to break.

The weight of the weight-ball has cause and effect on the life of the string. With the proper weight, it makes it possible for the string to out-live the life of the golf-ball. This built-in feature (Safety mechanism No 5) of this invention is coming from the proper weight of the weight-ball.
The weight-ball also comes with pre-drilled holes to make threading of the string fast and easy. It is re-used.

When the golf-ball breaks, a new set of golf-ball and string is threaded in the weight ball. The weight-ball is never discarded away.

4- The set of tee is similar to any normal golf tee. The only difference is that is made for maximum re-use. The invention is build around the premise of sustaining repetitive shots. So to prevent the tee from getting lost, a tee-weight-ball is attached it. The tee-weight-ball is made of any of the materials stated in item 3. The tee-string used to tie the tee and the tee-weight-ball together can be any of the materials stated in item 2.

How does it work?

The golf-ball is set on the tee. Then it is hit as in playing golf on a fairway of driving range using a golf club. As in playing any shot, the user is hitting a real golf ball, so the feel of the shot and the sound of the hit is also real. The ball will move towards the true direction of the shot and is seen by the user. However, since the golf ball is on a string, and the string is tied to the weight-ball, the distance it will travel is restrained. It travels only to a distance that the weight-ball allows.

Napoleon Toquero
Applicant

8 November, 1993
Date
The weight-ball acts as the compensating break and shock absorber. The weight-ball will travel a direction and distance proportionate to the energy created by the velocity of the golf-ball. The energy is equivalent to the weight of the golf-ball multiplied by the square of the velocity. The velocity of the golf-ball, of course, will depend on the strength of the swing and how well the ball is hit.

For example, in an extreme case when you made a swing, but, missed the ball and velocity of the golf-ball hit is zero, then the weight-ball compensate by also not moving.

The measure of the distance travelled by the weight ball provides a way of estimating the distance the golf-ball could have actually travelled. The farther the weight-ball travelled, the farther the golf-ball could have actually travelled if no strings were attached.

For example, one meter travel by the weight-ball can be extrapolated to be equivalent to 100 metres actual travel by the golf-ball if it were not tied to the weight-ball. The weight of the weight-ball can be adjusted to enable an estimate of the distance by metric or English in metres or yards.

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8 November, 1993
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In time, the user will easily refine estimating the distance by comparing his shot on this invention and unrestrained shots on the driving range or in the golf course.

The string also acts as another compensating break and shock absorber because of its flexibility and elasticity characteristics. So the shock absorption is shared by the weight-ball and the string. The proper balancing of the string and the weight ball enables this invention to sustain repetitive shots.

Other features

The safety problem of the golf-ball rebounding back to hit the user is solved by the weight-ball. If the ball is hit, the weight-ball will move forward towards the direction of the shot. This means it will move away from the user. Since the golf-ball is held on a sting, it will rebound back to the person using it. On the rebound, however, the golf-ball will not reach the person because the weight-ball has already moved away. The harder the golf-ball is hit, the farther the weight-ball travels and the safer it is for the person using it.

Another feature of this invention is you rarely loose a golf ball because it is on a leash. Even if you do not see the golf-ball (say you are playing in the dark) you can reel it in from the weight-ball.

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8 November, 1993
Date
Another problem solved is the tee getting lost. When a hit is made, the tee (as any tee does), it gets thrown away. This time, however, the tee-weight-ball restrains the tee. In the same manner the tee is on a leash. Even if you do not see the tee, (say you are again playing in the dark) you can reel it in from the tee-weight-ball.

Another problem solved is the run-away golf ball story. In this invention the golf ball is hit repeatedly until it breaks. Before the ball breaks away from the string totally it cracks. If the crack is visible, then this is a indicator to the user to replace with golf-ball and string set to a new set.

The question is what if the user is so engrossed with the game and the crack is not spotted on the outset? In this case the invention still has a limited reserve of safety built-in. Test indicated that a golf-ball with a crack can still sustain a few shots before it breaks away from the string completely. If the user missed to spot the crack in the outset, hitting a few more shots is still safe (Safety feature No 7). In time, the user will also learn to detect cracks by the sound of the hit. (Safety mechanism No 8)

Another important feature is its portability. It is light weight. It fits very well on a golf bag. No need to set-up. Requires a small playing space and it is convenient to allow playing most any where and any time.
1. The claims defining the inventions are as follows:

2. The portable golf practice device is used to practice golf swing. A real golf ball is used as the practice ball. You need a real golf club to play this device. Any club like woods, irons and wedge can be used.

3. The portable golf practice device as in No 1, consist of 1-golf-ball, 2-string, 3-weight-ball, 4-set of tee.

4. The golf-ball as in No 2, is pre-drilled to make the threading of the string fast and easy. A ball has a U shape hole coming in from the skin and out again.

5. The golf-ball as in No 2 and 3, have known rating. Rating, in this claim, means the number of repetitive shots a golf ball can sustain before it breaks.

6. The string as in No 2, has the desired characteristics of strength, durability, flexibility, elasticity, to sustain repetitive shots with out breaking (Safety mechanism No 2).

7. The string, as in No 2 and 5, is attached to the golf ball by threading it through the U shaped hole as in No 3. The string has materials, manner of manufacture and devices incorporated in it to be able to deal with the spin created by the golf ball in flight.

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Applicant

8 November, 1993
Date
7. The string, as in No 2, 5, and 6, is durable enough to out-last the life of the golf-ball. This built-in feature (Safety mechanism No 3) of this invention is incorporated in the string.

8. The other end of the string is attached to the weight ball.

9. The weight-ball as in No 2 and 8, is spherical in shape. It is similar to the golf ball in appearance only much larger in size. As well, it has a hole to enable a the string to be threaded.

10. The weight-ball as in No 2, 8 and 9, has a certain weight to provide the desired balance in compensating to break and absorb the shock generated by the shot. With the proper weight, it makes it possible for the string to out-live the life of the golf-ball referred too in No 7. This built-in feature (Safety mechanism No 5) of this invention is coming from the proper weight of the weight-ball.

11. The set of tee as in No 2, is made for maximum re-use and is able to sustaining repetitive shots without getting lost.

12. The set of tee as in No 2 and 11, is attached to a string that is as well attached to a tee weight-ball. The tee weight-ball used is actually a spare piece of the pre-drilled golf ball as in Item No 2, 3 and 4.

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8 November, 1993
Date
13. Principles - How does it work? The golf-ball is set on the tee. Then it is hit as in playing golf on a fairway of driving range using a golf club. Since the golf ball is on a string, and the string is tied to the weight-ball, the distance it will travel is restrained. It travels only to a distance that the weight-ball allows.

14. The weight-ball as in No 2,8,9,10 and 13, acts as the compensating break and shock absorber by travelling a direction and distance proportionate to the energy created by the velocity of the golf-ball.

15. The string as in No 2,5,6,8, and 13 also acts as another compensating break and shock absorber because of its flexibility and elasticity characteristics. So the shock absorption is shared by the weight-ball and the string.

16. The proper balancing of the string as in No 2,5,6,8, 13 & 15, the weight ball as in No 2,8,9,10,13 & 14, and the golf-ball rating as in No 2,3, & 4, enables the portable golf practice device to sustain repetitive shots. If the balance is correct, the ball breaks first before the string breaks. This safety device tells the user when to replace the golf-ball and string set with a new one. This built-in mechanism (Safety mechanism No 1) of this invention is incorporated in the golf-ball.

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8 November, 1993
Date
17. The safety problem of the golf-ball rebounding back to hit the user is solved by the weight-ball as in No 2,8,9,10,13,14 and 16. When the golf-ball is hit, the weight-ball will move forward towards the direction of the shot and away from the user. Since the golf-ball is held on a sting, it will rebound back to the person using it. On the rebound, however, the golf-ball will not reach the person because the weight-ball has already moved away. The harder the golf-ball is hit, the farther the weight-ball travels and the safer it is for the person using it.

18. The portable golf practice device substantially as herein decried with reference to the accompanying drawings.

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8 November, 1993
Date
ABSTRACT

A portable golf practice device is disclosed. The Portable Golf Practice Device Using Real Golf Balls according to this invention comprise of the 1-golf-ball, the 2-string, the 3-weight-ball, the set of tee which consist of the 4-tee, 5-tee-string, and the 6-tee-weight-ball. This invention is a device used to practice golf swing. A real golf ball is used as the practice ball. You need a real golf club to play this device. Any club like, woods, irons and wedge can be used. It is also portable and can be played with in a clear area the size of a tennis court eg backyard and parks. Safety devices to protect the user and its environ is incorporated in the design.

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8 November, 1993
Date
Figure 1

Portable Golf Practice Device
Using Real Golf Balls

1-golf-ball, 2-string, 3-weight-ball, 4-tee, 5-tee-string, 6-tee-weight-ball.

(Note: Drawing is not to scale)

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Applicant

8 November, 1993
Date