



US 20040191738A1

(19) **United States**(12) **Patent Application Publication**
Grant(10) **Pub. No.: US 2004/0191738 A1**(43) **Pub. Date: Sep. 30, 2004**(54) **SPORTS PRACTICE NET**

(57)

ABSTRACT(76) Inventor: **Eugene Grant, Reno, NV (US)**

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(21) Appl. No.: **10/397,271**(22) Filed: **Mar. 27, 2003****Publication Classification**(51) **Int. Cl.⁷ A63B 69/36**(52) **U.S. Cl. 434/252**

A free standing net system incorporates a full sized floor for easy ball collection and a built in training target secured to a rear wall of a netted enclosure which is functional for multi-sport use. The netting of the enclosure is 1000 denier polyester, treated for long wear and UV resistance. The floor is constructed of high density nylon with a water-resistant polyurethane coating. The sleeves located at the peripheral edges of the netting are engaged by two shock-corded poles to provide a cantilevered frame portion projecting above and towards the sports enthusiast. The cantilevered frame portion is specifically designed to trap wedge shots during golf practice. Angled side wings of the netted enclosure allow free swinging motion with any golf club to provide a wide angle of capture during golf practice swings.

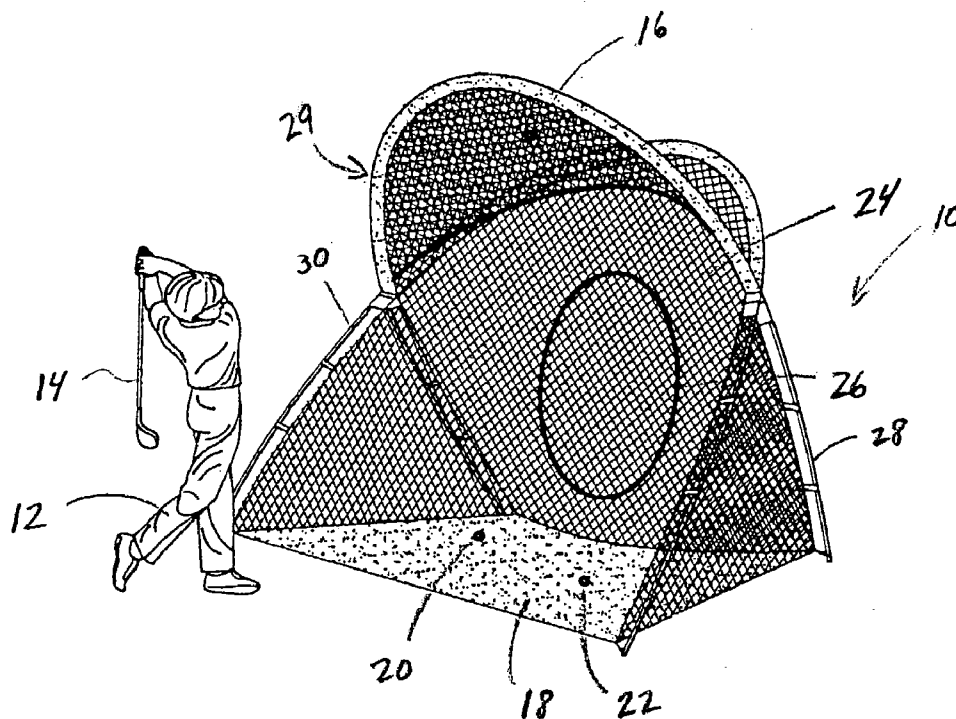


FIG. 1

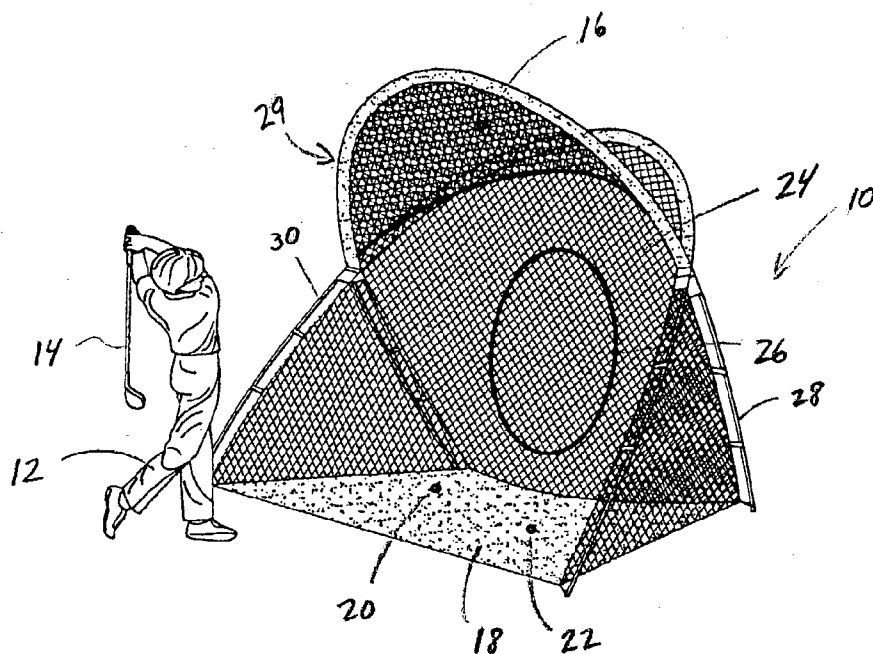


FIG. 7

FIG. 6

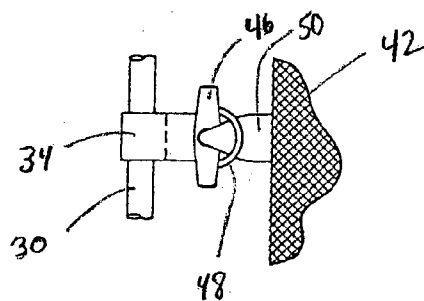


FIG. 8

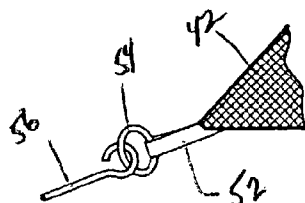


FIG. 9

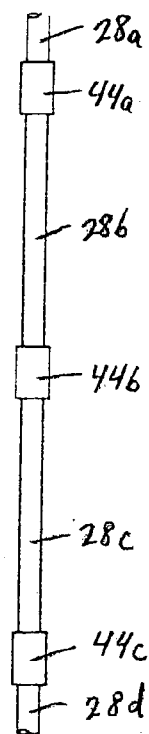
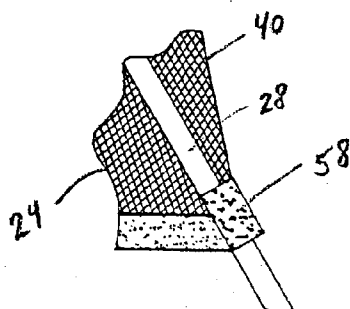


FIG. 2

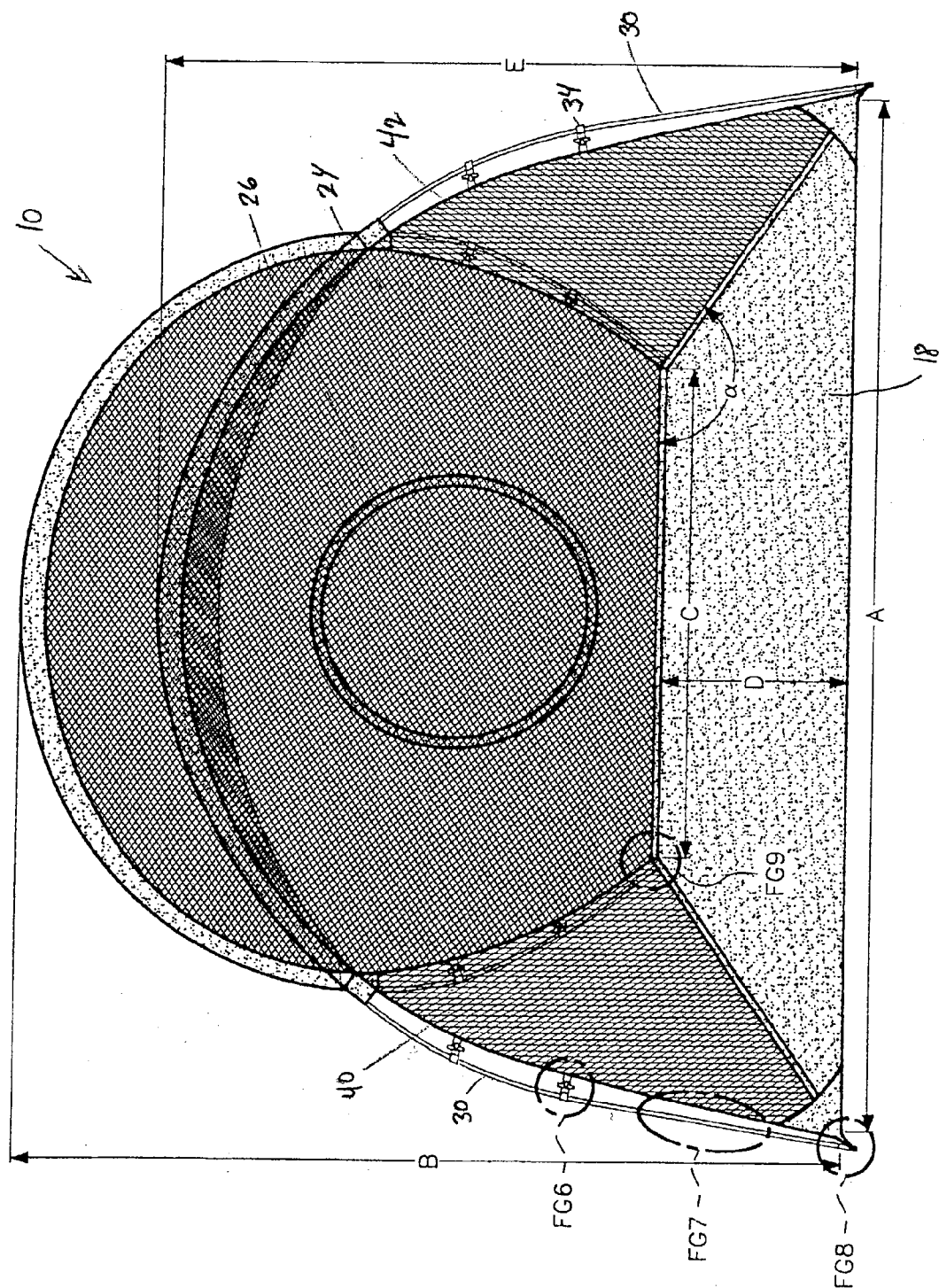


FIG. 3

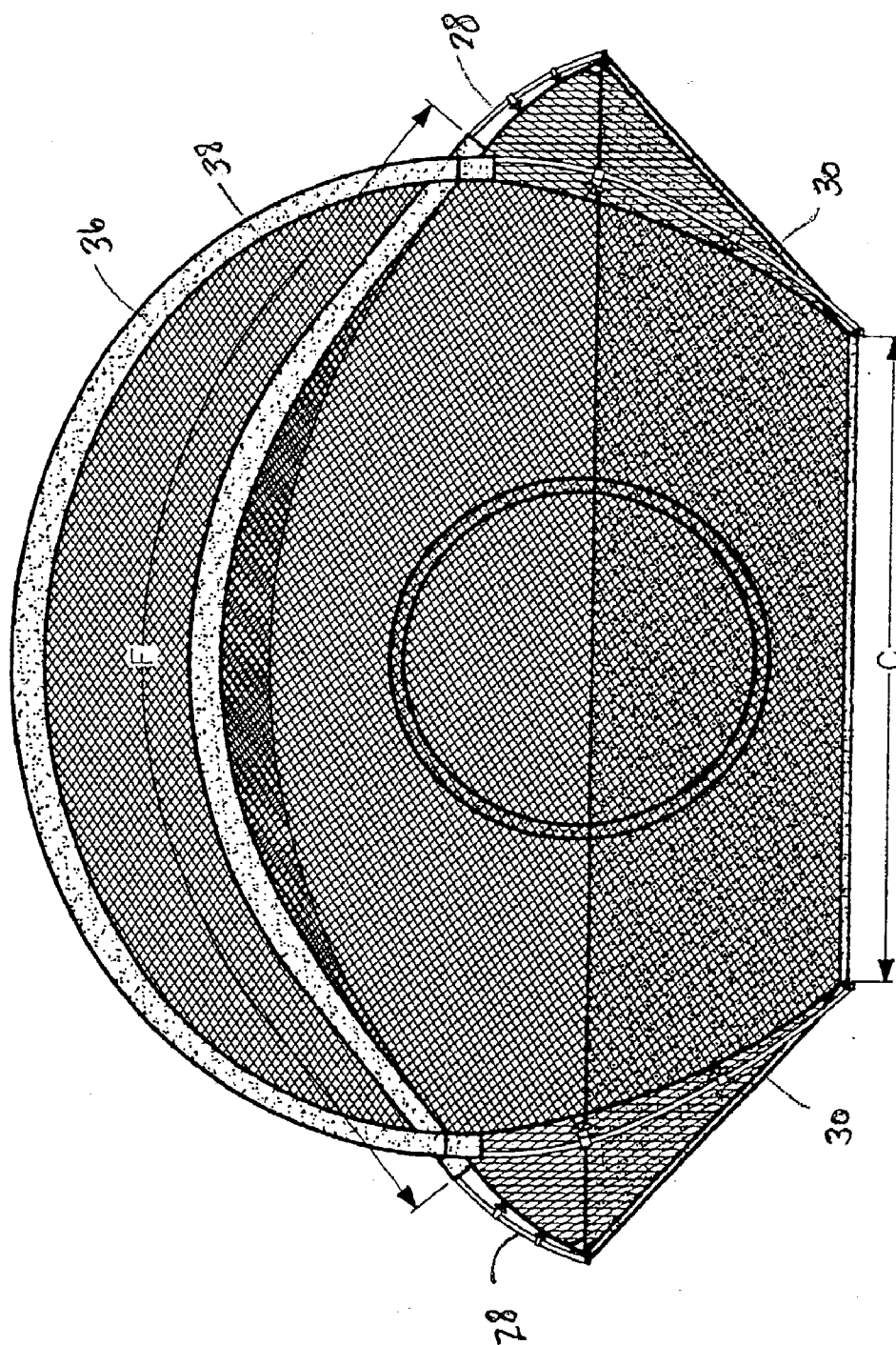


FIG. 4

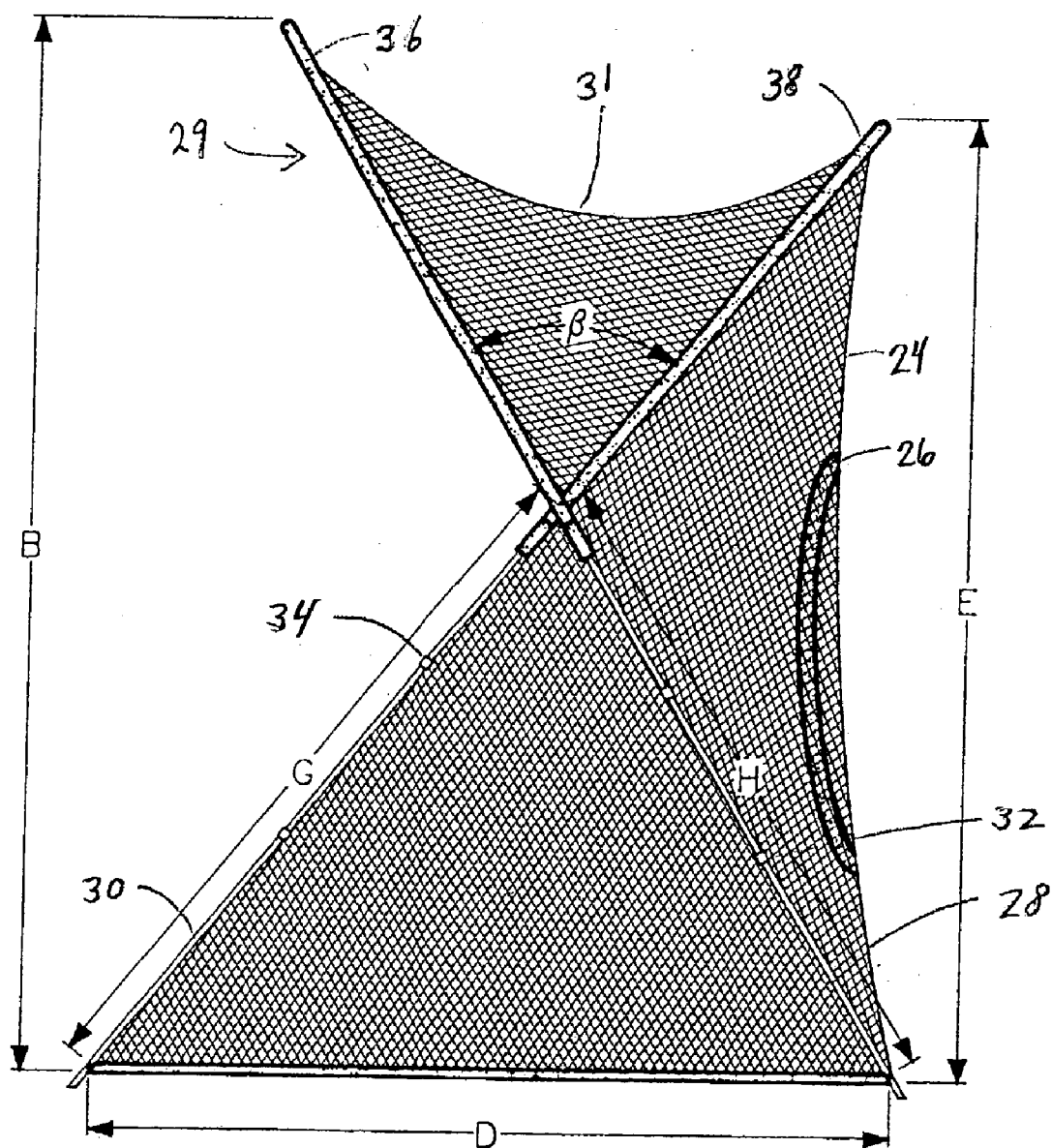
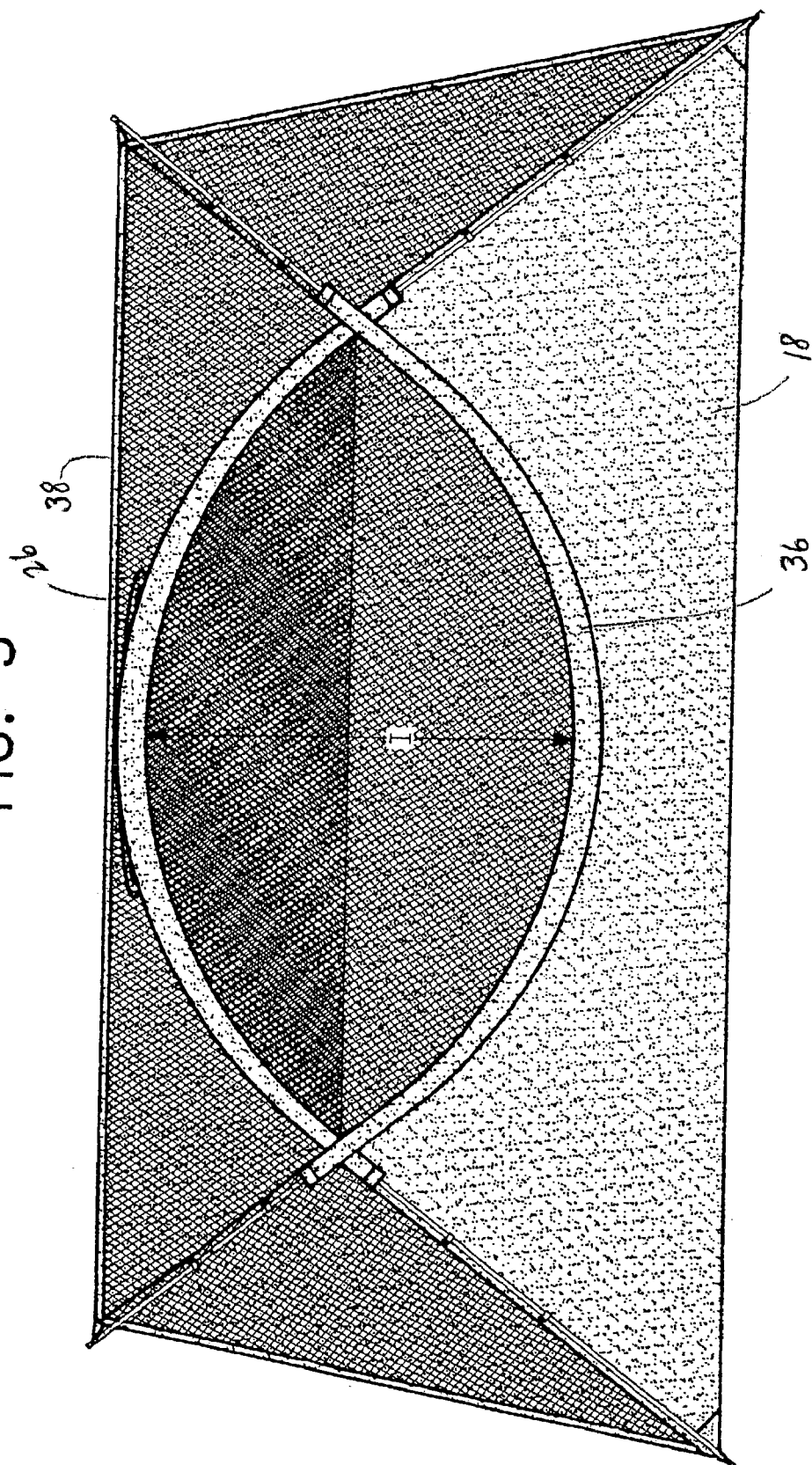


FIG. 5



SPORTS PRACTICE NET

FIELD OF THE INVENTION

[0001] The present invention relates to a sports practice net for use in practicing golf, baseball, softball, soccer, football and tennis, for example.

BACKGROUND OF THE INVENTION

[0002] With increased leisure time and increased competition in sports for both children and adults, there is ever increasing pressure to be proficient in many fields of sport.

[0003] When not partaking of sports, it is often desirable to practice the fundamentals of the game for at least limited time periods. This should be able to be accomplished without entering a field of competition or require all of the equipment necessary to play the game, such as extensive areas of space or defined fields of play.

[0004] Accordingly, to achieve the goals of the present invention, a portable sports practice net should be able to be quickly assembled in limited areas of space to facilitate practicing of a particular sport.

SUMMARY OF THE INVENTION

[0005] By the present invention, a collapsible sports practice net facilitates practicing of a particular sport whether it be golf, baseball, softball, soccer, football or tennis, for example. This may be accomplished by the use of a shock-corded frame having two fiberglass shock-corded poles engageable within two nylon sleeves of the sports practice net for quick and easy assembly.

[0006] The free standing net system incorporates a full sized floor for easy ball collection and a built in training target secured to a rear wall of a netted enclosure which is functional for multi-sport use. The netting of the enclosure is 1000 denier polyester, treated for long wear and UV resistance. The floor is constructed of high density nylon with a water-resistant polyurethane coating.

[0007] The sleeves located at the peripheral edges of the netting are engaged by two shock-corded poles to provide a cantilevered frame portion projecting above and towards the sports enthusiast. The cantilevered frame portion is specifically designed to trap wedge shots during golf practice. Angled side wings of the netted enclosure extending from opposite sides of a rear wall allow free swinging motion with any golf club to provide a wide angle of capture during golf practice swings.

[0008] The frame encloses over 200 square feet of ball restraining netting. Freedom is provided to take a full golf swing while avoiding concern for over-hitting the ball. Substantially all golf swing practice shots will be restrained by the frame assembly of the present invention. Ground stakes may be used to anchor the frame assembly during windy conditions.

[0009] Accordingly, it is an object of the present invention to provide a collapsible frame assembly which is easily assembled to provide a sports practice net.

[0010] It is another object of the present invention to provide a collapsible frame assembly which is easily assembled to provide a sports practice net with the frame

assembly including a cantilevered frame section and two angled side wings allowing for free swinging of any golf club.

[0011] It is still yet another object of the present invention to provide a collapsible frame assembly which is easily assembled to provide a sports practice net with the frame assembly including a cantilevered frame section and two angled side wings assembled by sliding engagement of two shock-corded poles in sleeves located at a periphery of the netting of the frame assembly.

[0012] It is still yet another object of the present invention to provide a collapsible frame assembly which is easily assembled to provide a sports practice net with the frame assembly including a cantilevered frame section and two angled side wings assembled by sliding engagement of two shock-corded poles in sleeves located at a periphery of the netting of the frame assembly and having an integral target at a rear wall of the frame assembly.

[0013] These and other objects of the invention, as well as many of the intended advantages thereof, will become more readily apparent when reference is made to the following description taken in conjunction with the accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0014] FIG. 1 illustrates the sports practice net of the present invention being used to practice a golf swing.

[0015] FIG. 2 is a front view of the sports practice net of the present invention in an assembled condition.

[0016] FIG. 3 is a rear perspective view of the present invention.

[0017] FIG. 4 is a side view of the assembled sports practice net of the present invention illustrating the cantilevered frame portion extending up and away from a sports practice target located at a rear wall of the frame assembly.

[0018] FIG. 5 is a top plan view of the sports practice net.

[0019] FIG. 6 is an enlarged view of the area encircled and labeled as FG6 in FIG. 2.

[0020] FIG. 7 is an enlarged view of the area encircled and labeled as FG7 in FIG. 2.

[0021] FIG. 8 is an enlarged view of the area encircled and labeled as FG8 in FIG. 2.

[0022] FIG. 9 is an enlarged view of the area encircled and labeled as FG9 in FIG. 2.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0023] In describing a preferred embodiment of the invention illustrated in the drawings, specific terminology will be resorted to for the sake of clarity. However, the invention is not intended to be limited to the specific terms so selected, and it is to be understood that each specific term includes all technical equivalents which operate in a similar manner to accomplish a similar purpose.

[0024] With reference to the drawings, in general, and to FIGS. 1 through 5 in particular, a sports practice net embodying the teachings of the subject invention is gener-

ally designated as **10**. With reference to its orientation in **FIG. 1**, the sports practice net is being used by a golfer **12** swinging a club **14** to loft a ball **16** into the air. After contacting the net **10**, the ball will fall to the floor section **18** as evidenced by other balls **20, 22**.

[0025] As shown in more detail in **FIGS. 2 through 5**, the overall dimensions of the assembled sports practice net **10** include a width A of approximately 12 feet, a height B of approximately nine feet and a depth D of approximately six feet. The rearmost portion of the floor section **18** has a width C of approximately six feet. At a rear wall **24** of the frame assembly is an integral driving target **26** for assisting in aiming a ball at a specific location on the rear wall **24**.

[0026] As best shown in **FIG. 4**, the frame assembly includes two shock-corded poles **28, 30**. These poles are threaded through a series of loops **32, 34**, respectively, before engaging in sleeves **36, 38**, respectively. The loops **32** and sleeve **36** are similarly color coded to aid in proper threading of the shock-corded poles into position. Loops **34** and sleeve **38** are of the same color but of different color from the loops **32** and sleeve **36** to differentiate the threading path for the other pole **30**.

[0027] After insertion of the poles through their respective loops and sleeve, the pole **28** forms a forwardly projecting, cantilever frame portion **29**, particularly useful in trapping golf wedge shots. The rearward extending pole **30** helps in supporting the rear wall section **24** having the target **26**. A section **31** of the netting is draped to curve downwardly between the poles **28** and **30**. As shown in **FIG. 4**, the poles **28, 30**, cross at an angle β of approximately 70 degrees.

[0028] The height E of the uppermost portion of pole **30** extending through sleeve **38** is approximately eight feet. The length G of pole **30** from the floor section **18** to its intersection with pole **28** is approximately five feet. Similarly, the height H of pole **28** to the intersection with pole **30** is approximately five feet. Also, the length F of sleeve **38** as shown in **FIG. 3** is approximately 14 feet. The separation I of the sleeves **36, 38** in section **31** as shown in **FIG. 5** is approximately six feet.

[0029] Extending forwardly from the rear wall **24** are opposed wing sections **40** and **42** having a bottom length of approximately six feet as well as a height along the rear wall section of approximately six feet and extending above the floor section at its forwardmost edge for approximately six feet. The wing sections **40, 42** diverge from the rear wall section **24** by an angle α of approximately 145 degrees.

[0030] With reference to **FIGS. 6 through 9**, additional details of the frame assembly are shown. In **FIG. 7**, shock cord sections **28a, 28b, 28c, 28d** are shown interconnected by couplings **44a, 44b, 44c**. Running through the hollow interior of the shock cord sections is an elastic cord such that the shock cord sections may be disengaged from interconnecting couplings **44a, 44b, 44c** by movement of the shock cord sections away from each other. For interconnection of the sections **28a, 28b, 28c, 28d**, while overcoming the resistance of the internal elastic cord passing through the interior of the sections, the various shock cord sections are positioned in the couplings and are held in place by the elasticity of the internal elastic cord.

[0031] In **FIG. 6**, shock cord pole **30** is shown extending through loop **34** which is connected to wing section **42**, for

example. The connection of the pole **30** to the wing section **42** is accomplished by passing a toggle **46** through a D-ring **48** with an end of the loop **50** interconnected between the wing section **42** and toggle **46**. Similarly, the loop **34** terminates at one end in D-ring **48** with the opposite end being secured to the wing section **42**. The pole **30** is thereby retained in position prior to entry into elongated sleeve **36** (with reference to pole **30**).

[0032] **FIG. 8** illustrates a corner of wing section **42** interconnected by loop **52** to a ring **54**. A steel ground stake **56** may engage the ring **54** for anchoring the frame assembly during high wind conditions.

[0033] In **FIG. 9**, the end of pole **28**, adjacent to rear wall **24**, is shown secured within loop **58** for anchoring the pole **28**. A steel ground stake arrangement as shown in **FIG. 8** may be implemented if necessary due to high wind conditions.

[0034] The foregoing description should be considered as illustrative only of the principles of the invention. Since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the invention to the exact construction and operation shown and described, and, accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the invention.

I claim:

1. A collapsible sports practice net comprising:

a floor section, and

an enclosure formed of netting located above said floor section, said netting including a rear wall, two wing sections extending laterally from said rear wall and a cantilevered portion projecting forwardly from said rear wall and terminating in a free end above said floor section.

2. A collapsible sports practice net as claimed in claim 1, wherein said netting is supported by support poles.

3. A collapsible sports practice net as claimed in claim 2, wherein one of said support poles extends through a sleeve located at said free end of said cantilevered portion.

4. A collapsible sports practice net as claimed in claim 3, wherein said one pole terminates at a rear edge of said floor section.

5. A collapsible sports practice net as claimed in claim 1, wherein said free end extends approximately nine feet above said floor section.

6. A collapsible sports practice net as claimed in claim 5, wherein said rear wall extends to a height below said free end.

7. A collapsible sports practice net as claimed in claim 6, wherein said rear wall extends to a height of approximately eight feet.

8. A collapsible sports practice net as claimed in claim 3, wherein said one pole extends through a plurality of loops and said sleeve to support said netting.

9. A collapsible sports practice net as claimed in claim 3, wherein another of said support poles extends from a front edge of said floor section to an upper edge of said rear wall.

10. A collapsible sports practice net as claimed in claim 2, wherein said two wing sections extend between two of said support poles and said floor section.

11. A collapsible sports practice net comprising:

an enclosure formed of netting and including a rear wall, two wing sections extending laterally from opposite sides of said rear wall and a cantilevered portion projecting forwardly from said rear wall and terminating in a free end, and

support poles threaded through said enclosure for supporting the enclosure above the ground.

12. A collapsible sports practice net as claimed in claim 11, wherein one of said support poles extends through a sleeve located at said free end of said cantilevered portion.

13. A collapsible sports practice net as claimed in claim 12, wherein said one pole terminates at a bottom edge of said rear wall.

14. A collapsible sports practice net as claimed in claim 11, wherein said rear wall extends to a height below said free end.

15. A collapsible sports practice net as claimed in claim 12, wherein said one pole extends through a plurality of loops and said sleeve to support said netting.

16. A collapsible sports practice net as claimed in claim 15, wherein said plurality of loops and said sleeve are the same color.

17. A collapsible sports practice net as claimed in claim 11, wherein two of said support poles cross each other.

18. A collapsible sports practice net as claimed in claim 17, wherein said two support poles cross at an angle of approximately 70°.

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