PERFORMANCE PUTTER SYSTEMS

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Abstract

Improved performance putter systems and apparatus relating to improving golf putters resulting in an increased accuracy and consistency during golf putting. Additionally, such performance putter systems comprise specifications and manufacturing within Official professional golf-club putter-head specifications.
PERFORMANCE PUTTER SYSTEMS

CROSS-REFERENCE TO RELATED APPLICATION

[0001] The present application is related to and claims priority from prior provisional application Ser. No. 61/394,961, filed Oct. 20, 2010, entitled “PERFORMANCE PUTTER SYSTEMS”, the content of which is incorporated herein by this reference and is not admitted to be prior art with respect to the present invention by the mention in this cross-reference section.

BACKGROUND

[0002] This invention relates to providing systems for improved performance in golf putters. More particularly, this invention relates to providing systems for an increased accuracy and consistency in at least one golf putter.

[0003] Golfers look for any advantage which improves their game, however, are often limited by the rules of conformity for the game of golf. In particular, putting can be challenging. A relatively small amount of force is imparted to the ball when putting, which means small variances in the alignment of the putter head may result in relatively large discrepancies of ball trajectory. Reducing such small variances is essential to sinking the ball in the cup in as few strokes as possible. Many golfers train for years to hone their putting swing to minimize such variances, yet may still encounter times when variability still encroaches. It would therefore be highly useful and desirable to construct a putter head to aid in the control of small variances in the alignment of the putter head while also conforming to official rules of the game.

OBJECTS AND FEATURES OF THE INVENTION

[0004] A primary object and feature of the present invention is to provide a performance putter system overcoming the above-mentioned problem(s).

[0005] It is a further object and feature of the present invention to provide such a system that minimizes small variances in rotation of the putter head.

[0006] Another object and feature of the present invention is to provide such a system that ensures the alignment of the clubface above the midpoint of the ball during use.

[0007] Yet another object and feature of the present invention is to provide such a system that promotes top spin on the golf ball during use.

[0008] A further object and feature of the present invention is to provide such a system that allows for both left-handed and right-handed use of the golf putter.

[0009] It is another object and feature of the present invention to provide such a system that conforms to official rules and regulations of golf relating to club head construction and use.

[0010] A further primary object and feature of the present invention is to provide such a system that is efficient, inexpensive, and handy. Other objects and features of this invention will become apparent with reference to the following descriptions.

SUMMARY OF THE INVENTION

[0011] In accordance with a preferred embodiment hereof, this invention provides a system, relating to at least one putter head of at least one golf club assisting at least one player to swing the golf club in a manner to strike at least one golf ball resting on a playing surface at a height of at least about a center point of height of the at least one golf ball while not contacting the playing surface with the at least one putter head, comprising: at least one golf-ball putter head structured and arranged to put the at least one golf ball; and at least one shaft attached to the at least one putter head, and arranged to permit attaching such at least one golf-ball putter head to at least one shaft of the at least one golf club; wherein such at least one golf-ball putter head comprises at least one golf-ball striker structured and arranged to strike the at least one golf ball; and at least one striker elevation restrictor structured and arranged to restrict elevation of at least one golf-ball striker to strike the at least one golf ball resting on the playing surface at the height of at least about the center point of height of the at least one golf ball while not contacting the playing surface with said at least one golf-ball putter head, when the at least one player swings the golf club; wherein such at least one striker elevation restrictor does not comprise such at least one golf-ball striker; and wherein such at least one striker elevation restrictor does not run into such at least one golf-ball striker.

[0012] Moreover, it provides such a system wherein such at least one golf-ball putter head further comprises at least one impact twist resistor structured and arranged to resist twisting of such at least one golf-ball putter head at impact with the at least one golf ball. Additionally, it provides such a system wherein such at least one impact twist resistor comprises at least one mass distribution comprising inertial resistance to twisting. Also, it provides such a system wherein such at least one impact twist resistor comprises at least two runners structured and arranged to concentrate mass at heel and toe of such at least one golf-ball putter head. In addition, it provides such a system wherein such at least one golf-ball putter head comprises two such golf-ball strikers.

[0013] And, it provides such a system wherein such two golf-ball strikers comprise identical characteristics. Further, it provides such a system wherein such two golf-ball strikers comprise opposite locations on such at least one golf-ball putter head. Even further, it provides such a system wherein such at least one golf-ball putter head comprises both left-handed and right-handed usability. Moreover, it provides such a system wherein such at least one striker elevation restrictor comprises at least one runner. Additionally, it provides such a system wherein such at least one runner comprises at least one chamfered surface chamfered back from such at least one golf-ball striker. Also, it provides such a system wherein such at least one chamfered surface comprises chamfering of at least 45 degrees.

[0014] In addition, it provides such a system wherein such at least one golf-ball putter head comprises: less than about 7 inches in overall length, from heel to toe, and greater overall length than overall width. And, it provides such a system wherein such at least one golf-ball putter head comprises less than or equal to about 2 1/2 inches in height. Further, it provides such a system wherein such at least one golf-ball striker comprises an overall length: greater than or equal to half the length of such at least one golf-ball putter head; and greater than or equal to two thirds the width of such at least one golf-ball putter head. Even further, it provides such a system wherein such at least one golf-ball putter head comprises: about 5 inches in overall length, from heel to toe, and about 1 1/4 inches in overall width. Moreover, it provides such a system wherein such at least one golf-ball putter head comprises about 1 inch in height.
Additionally, it provides such a system wherein such overall length of such at least one golf-ball striker comprises about 4¾ inches. Also, it provides such a system wherein such at least one golf-ball striker comprises a height of about ½ inch. In addition, it provides such a system wherein such at least one golf-ball striker comprises a loft from about 5 degrees to about 10 degrees. And, it provides such a system wherein such loft of such at least one golf-ball striker comprises about 9 degrees. Further, it provides such a system wherein such at least one striker elevation restricter restricts elevation of lowest edge of such at least one golf-ball striker to about ½ inch above the at least one playing surface.

Even further, it provides such a system wherein such at least one striker elevation restricter comprises at least one runner. Even further, it provides such a system wherein such at least one runner comprises about ½ inch in height. Even further, it provides such a system wherein such at least one runner comprises at least one chamfered surface chamfered back from such at least one golf-ball striker. Even further, it provides such a system wherein such at least one chamfered surface comprises chamfering of at least 45 degrees.

In accordance with another preferred embodiment hereof, this invention provides a system comprising a golf putter club-head having at least one striking surface with at least one minimum striking elevation, during use, from a playing surface greater than or equal to one radius of at least one standard golf ball, and having at least one runner, which is not part of and does not run into such at least one striking surface, to effect such at least one minimum elevation.

In accordance with another preferred embodiment hereof, this invention provides a system, relating to at least one putter head of at least one golf club assisting at least one player to swing the golf club in a manner to strike at least one golf ball resting on a playing surface at a height of at least about a center point of height of the at least one golf ball while not contacting the playing surface with the at least one putter head comprising: golf-ball putter head means for putting the at least one golf ball; and shaft attachers means for permitting attaching such golf-ball putter head means to at least one shaft of the at least one golf club; wherein such golf-ball putter head means comprises golf-ball striker means for striking the at least one golf ball, and striker elevation restricter means for restricting elevation of said golf-ball striker means to strike the at least one golf ball resting on the playing surface at a height of at least about a center point of height of the at least one golf ball while not contacting the playing surface with said golf-ball putter head means, when the at least one player swings the golf club; wherein such striker elevation restricter means does not comprise such golf-ball striker means; and wherein such striker elevation restricter means does not run into such golf-ball striker means.

Even further, it provides such a system wherein such golf-ball putter head means further comprises impact twist resistor means for resisting twisting of such golf-ball putter means at impact with the at least one golf ball. Even further, it provides such a system wherein such impact twist resistor means comprises at least one mass distribution comprising inertial resistance to twisting. In accordance with embodiments hereof, this invention provides for each and every novel feature, element, combination, step and/or method disclosed or suggested by this patent application.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 shows an end view, illustrating a performance putter system, according to a preferred embodiment of the present invention.

FIG. 2 shows a side view, illustrating the performance putter system, according to the preferred embodiment of FIG. 1.

FIG. 3 shows a perspective view, illustrating at least one putter club-head of the performance putter system, according to the preferred embodiment of FIG. 2.

FIG. 4 shows an end view of the performance putter system, illustrating forced elevation of at least one striking surface, according to the preferred embodiment of FIG. 3.

FIG. 5 shows a bottom view of the at least one putter club-head, according to the preferred embodiment of FIG. 4.

FIG. 6 shows a top view of the at least one putter club-head, according to the preferred embodiment of FIG. 5.

DETAILED DESCRIPTION OF THE BEST MODES AND PREFERRED EMBEDMENTS OF THE INVENTION

FIG. 1 shows an end view, illustrating a performance putter system 100, according to a preferred embodiment of the present invention. Performance putter system 100 preferably comprises at least one putter club-head 105, as shown. Putter club-head 105 is preferably designed to strike at least one golf ball 160 near golf-ball equator 165, preferably above golf-ball equator 165, as shown.

Golf-ball equator 165 preferably comprises a great circle of the roughly spherical shape of golf ball 160, preferably the great circle which lies in a plane parallel to playing surface 167 (preferably a green), as shown. Golf-ball equator 165 lies one radius (distance 1) of golf ball 160 above playing surface 167, preferably about 0.84 inches on a regulation ball, as shown.

Putter club-head 105 preferably comprises at least one striking surface 150 and at least one runner 140, as shown. Striking surface 150 preferably comprises at least one leading edge 170 and at least one trailing edge 175, as shown. Leading edge 170 preferably is farther from centerline 174 of putter club-head 105 than trailing edge 175, as shown. Leading edge 170 preferably is the point of contact with golf ball 160, during use.

In use, putter club-head 105 preferably strikes golf ball 160 at impact point 172. When impact point 172 is on or above golf-ball equator 165, as shown, putter club-head 105 preferably imparts top spin to golf ball 160, preferably preventing hopping and providing better control of golf ball 160.

To accommodate both left-handed and right-handed golfers, putter club-head 105 preferably comprises two striking surfaces 150, preferably one front face 152 and preferably one back face 154 (at least herein embodying wherein such at least one golf-ball putter head comprises both left-handed and right-handed usability), as shown. Front face 152 and back face 154 preferably comprise identical dimensions and preferably are positioned directly opposite each other on putter club-head 105, preferably at the front and back, as shown (this arrangement at least herein embodying wherein such two golf-ball strikers comprise identical characteristics; and this arrangement at least herein embodying wherein such two golf-ball strikers comprise opposite locations on such at least one golf-ball putter head). In use, a right-handed golfer and a left-handed golfer will simply use opposite striking surfaces 150, such that front face 152 and back face 154 (at least herein embodying wherein such at least one golf-ball putter head comprises two such golf-ball strikers) are simply reversed. For the purposes of this specification, front face 152 will be considered to be closest to golf ball 160, and back face 152 furthest from golf ball 160, regardless of use as left-handed or right-handed, as shown.
Runner 140 preferably comprises at least one non-striking surface 142, as shown. Non-striking surface 142 is preferably chamfered back away from striking surface 150, preferably greater than or equal to about 45 degrees to perpendicular with respect to playing surface 167, preferably at about 45 degrees (at least herein embodying wherein such least one chamfered surface comprises chamfering of at least 45 degrees), as shown. Upon reading this specification, those with ordinary skill in the art will now appreciate that, under appropriate circumstances, considering such issues as design preference, user preferences, marketing preferences, cost, structural requirements, available materials, technological advances, etc., other chamfered surface arrangements such as, for example, greater or lesser than 45-degrees, serpentine, multiple angular arrangement, etc., may suffice.

Since non-striking surface 142 (at least herein embodying wherein such at least one runner comprises at least one chamfered surface chamfered back from such at least one golf-ball striker) is preferably chamfered back as described above, non-striking surface 142 preferably does not run into striking surface 150, as dictated by USGA rules (this arrangement at least herein embodying wherein such at least one striker elevation restrictor does not run into such at least one golf-ball striker; and this arrangement at least herein embodying wherein such striker elevation restrictor means does not run into such golf-ball striker means), as shown.

When putter club-head 105 comprises both left-handed and right-handed use, runner 140 preferably is chamfered back identically on both the front and back, as shown. This arrangement at least herein embodies wherein such at least one striker elevation restrictor does not comprise such at least one golf-ball striker; and this arrangement at least herein embodies wherein such striker elevation restrictor means does not comprise such golf-ball striker means.

FIG. 2 shows a side view, illustrating the performance putter system, according to the preferred embodiment of FIG. 1. FIG. 3 shows a perspective view illustrating putter club-head 105 of performance putter system 100 according to the preferred embodiment of FIG. 2. As shown in FIG. 2, runner 140 preferably is located on sole 130 of putter club-head 105. In FIG. 2, putter club-head 105, as shown, preferably comprises at least two runners 140, preferably at least one heel runner 146 and at least one toe runner 144. Heel runner 146 and toe runner 144 are preferably located on opposite ends of putter club-head 105, as shown in FIG. 2. Heel runner 146 preferably is located at heel 120 of putter club-head 105, as shown in FIG. 2. Toe runner 144 preferably is located at toe 125 of putter club-head 105, as shown in FIG. 2.

Having heel runner 146 and toe runner 144 (at least herein embodying wherein such at least one impact twist resistor comprises at least two runners structured and arranged to concentrate mass at heel and toe of such at least one golf-ball putter head) located on opposite ends of putter club-head 105, as shown, preferably gives putter club-head 105 increased rotary inertia from distributing the mass to concentrate at the ends of putter club-head 105 (this arrangement at least herein embodying wherein such at least one golf-ball putter head further comprises at least one impact twist resistor structured and arranged to resist twisting of such at least one golf-ball putter head on impact with the at least one golf ball; and at least herein embodying wherein such at least one impact twist resistor comprises at least one mass distribution comprising inertial resistance to twisting; and this arrangement at least herein embodying wherein such golf-ball putter head means further comprises impact twist resistor means for resisting twisting of such golf-ball putter means at impact with the at least one golf ball; and at least herein embodying wherein such impact twist resistor means comprises at least one mass distribution comprising inertial resistance to twisting). In use, putter club-head 105 preferably resists twisting from the above-described inertia arrangement. At least two times during a swing, a club-head may rotate causing the club-head to strike a golf ball at an angle, before the strike and during the strike. Before such a strike, a player's arm motion may slightly twist the club-head. During the strike, the impact of the club-head on the golf ball (particularly if struck off center of the club-head's sweet-spot) may twist the club-head. The increased rotational inertia of putter club-head 105 preferably serves to resist these twists aiding the player in striking golf ball 160 more often squarely even when slight variations of arm movement or impact centering occur, thus improving the player's game.

Putter club-head 105 preferably comprises at least one heel 120 and at least one toe 125, as shown. Shaft 137 preferably attaches to putter club-head closer to heel 120 than toe 125, as shown in FIG. 2. Shaft 137 preferably inserts into shaft hole 155 (at least embodying wherein at least one shaft attacher structured and arranged to permitting attaching such at least one golf-ball putter head to at least one shaft of the at least one golf club; and at least embodying wherein shaft attacher means for permitting attaching such golf-ball putter head means to at least one shaft of the at least one golf club), as shown. Upon reading the teachings of this specification, those skilled in the art will now appreciate that, under appropriate circumstances, considering such issues as cost, future technologies, regulations, etc., other shaft attachment points, such as, for example, on the back, on the end, about centered on club head, etc., may suffice.

Heel 120 preferably comprises at least one heel end 180, and toe 125 preferably comprises at least one toe end 185, as shown in FIG. 2. Heel end 180 and toe end 185 preferably comprise at least one non-planar surface, preferably rounded off, as shown, preferably to prevent creation of additional striking surfaces. In addition, top 135 of putter club-head 105 preferably comprises at least one non-planar surface, preferably at least one curved surface, as shown. Heel end 180 and toe end 185 and top 135 preferably comprise convex curvature, as shown. Upon reading the teachings of this specification, those skilled in the art will now appreciate that, under appropriate circumstances, considering such issues as cost, future technologies, official requirements, etc., other non-planar surfaces, such as, for example, slotted, undulating, concave, etc., may suffice.

Striking surface 150 (at least embodying herein at least one golf-ball striker structured and arranged to strike the at least one golf ball; and at least embodying herein golf-ball striker means for striking the at least one golf ball) preferably comprises at least one planar surface, preferably planar surface, as shown. Striking surface 150 preferably extends about the length of putter club-head 105, as shown. Striking surface 150 preferably further extends from leading edge 170 to trailing edge 175, as shown in FIG. 2. Runner 140 preferably extends below leading edge 170.

FIG. 4 shows an end view of performance putter system 100, illustrating force elevation of striking surface 150, according to the preferred embodiment of FIG. 3. Runner 140 preferably comprises at least one triangular shaped
cross-section, preferably at least one right triangle, preferably at least one equilateral right triangle, as shown. Triangular shape of runner 140 preferably comprises apex 148, preferably at the furthest point away from sole 130, as shown. Runner 140 preferably forces a minimum elevation height for leading edge 170 off of playing surface 167, as shown (at least herein embodying wherein such at least one striker elevation restrictor comprises at least one runner). Such minimum elevation height preferably prevents undercutting golf ball 160, which causes golf ball 160 to hop. In addition, such minimum elevation height preferably promotes hitting golf ball 160 in a manner to create top spin, which preferably keeps golf ball on a straighter course, preferably unaffected by small variances in playing surface 167. In use, putter club-head 105 must be elevated at least slightly above playing surface 167 (height F) to prevent grounding of putter club head during swing, as shown in FIG. 1. By forcing such minimum elevation height, when used, leading edge 170 is preferably naturally elevated to the preferred striking height shown in FIG. 1. This arrangement at least embodies herein at least one striker elevation restrictor structured and arranged to restrict elevation of said at least one golf-ball striker to strike the at least one golf ball resting on the playing surface at the height of at least about the center point of height of the at least one golf ball while not contacting the playing surface with said at least one golf-ball putter head, when the at least one player swings the golf club; and this arrangement at least embodies herein striker elevation restrictor means for restricting elevation of said golf-ball striker means to strike the at least one golf ball resting on the playing surface at a height of at least about a center point of height of the at least one golf ball while not contacting the playing surface with said golf-ball putter head means, when the at least one player swings the golf club.

Putter club-head 105 preferably comprises metal, preferably aluminum, alternately preferably brass. Upon reading the teachings of this specification, those skilled in the art will now appreciate that, under appropriate circumstances, considering such issues as cost, future technologies, etc., other materials, such as, for example, non-corrosive metals, wood composites, carbon-fiber, stainless steel, tungsten, ceramics, etc., may suffice.

FIG. 5 shows a bottom view of putter club-head 105 according to the preferred embodiment of FIG. 4. FIGS. 6 shows a top view of putter club-head 105 according to the preferred embodiment of FIG. 5. With reference to FIG. 1, FIG. 5 and FIG. 6, Applicant discloses preferred dimensions, and preferred dimensional relationships of performance putter system 100.

Putter club-head 105 preferably comprises a length A, preferably comprising less than about 7 inches, preferably about 5 inches, as shown. Further, putter club-head 105 preferably comprises a width C, preferably comprising less than length A, preferably about 1¼ inches, as shown. In addition, putter club-head 105 preferably comprises a height D, preferably comprising less than about 2½ inches, preferably about 1 inch, as shown.

Striking surface 150 preferably comprises a length B, preferably comprising greater than ½ of width C and greater than ½ of length A, preferably about equal to length A less the thickness of rounding at both heel end 180 and toe end 185, preferably about 4½ inches, as shown. Further, striking surface 150 preferably comprises a height E, preferably comprising about ½ inch, as shown. In addition, striking surface 150 preferably comprises a loft (angle α), preferably comprising from about 5 degrees to about 10 degrees, preferably about 9 degrees, as shown.

Runner 140 preferably comprises a length K, preferably comprising less than ½ of the difference between length A and about 3 times distance I (½[A−3I]), preferably about 1 inch, as shown. Further, runner 140 preferably comprises a base width (at sole 130) of about equal to width C, as shown. In addition, runner 140 preferably comprises a height G, preferably comprising greater than height E, preferably less than or equal to about ½ width C, preferably about ½ inch, as shown (this arrangement at least herein embodying wherein such at least one striker elevation restrictor restricts elevation of lowest edge of such at least one golf-ball striker to about ½ inch above the at least one playing surface).

Shaft hole 155 preferably comprises a diameter H, preferably comprising about ½ inch. Further, shaft hole 155 is preferably positioned about centered along width C and preferably a distance J from heel end 180. In addition, shaft hole 155 preferably penetrates putter club-head 105 from top 135 to sole 130, as shown.

In use, putter club-head 105 (at least embodying herein at least one golf-ball putter head structured and arranged to put the at least one golf ball and at least embodying herein golf-ball putter head means for putting the at least one golf ball) preferably is elevated off playing surface 167 a height F, preferably comprising about ½ inch, as shown. Elevation to height F between apex 148 and playing surface 167 preferably aligns leading edge 170 to hit impact point 172 on golf ball 160.

Upon reading the teachings of this specification, those skilled in the art will now appreciate that, under appropriate circumstances, considering such issues as cost, future technologies, etc., other dimensions may suffice. Preferably, such performance putter systems comprise specifications and manufacturing within Official professional golf-club putter-head specifications.

Although applicant has described applicant’s preferred embodiments of this invention, it will be understood that the broadest scope of this invention includes modifications such as diverse shapes, sizes, and materials. Such scope is limited only by the below claims as read in connection with the above specification. Further, many other advantages of applicant’s invention will be apparent to those skilled in the art from the above descriptions and the below claims.

What is claimed is:
1) A system, relating to at least one putter head of at least one golf club assisting at least one player to swing the at least one golf club in a manner to strike at least one golf ball, resting on a playing surface, at a height of at least about a center point of height of the at least one golf ball, while not contacting the playing surface with the at least one putter head, comprising:
a) at least one golf-ball putter head structured and arranged to assist putting the at least one golf ball;
b) wherein said at least one golf-ball putter head comprises
i) at least one shaft attach(structured and arranged to permit attaching said at least one golf-ball putter head to at least one shaft of the at least one golf club,
ii) at least one golf-ball striker and arranged to strike the at least one golf ball, and
iii) at least one striker elevation restrictor and arranged to restrict elevation of said at least one golf-ball striker to strike the at least one golf ball resting on the playing surface at the height of at least about the center point of height of the at least one golf ball while

not contacting the playing surface with said at least one golf-ball putter head, when the at least one player swings the golf club,
iv) wherein said at least one striker elevation restrictor does not comprise said at least one golf-ball striker, and
v) wherein said at least one striker elevation restrictor does not run into said at least one golf-ball striker.

2) The system, according to claim 1, wherein said at least one golf-ball putter head further comprises at least one impact twist resistor structured and arranged to resist twisting of said at least one golf-ball putter head on impact with the at least one golf ball.

3) The system, according to claim 2, wherein said at least one impact twist resistor comprises at least one mass distribution comprising inertial resistance to twisting.

4) The system, according to claim 3, wherein said at least one impact twist resistor comprises at least two runners structured and arranged to concentrate said at least one mass distribution at heel and toe of said at least one golf-ball putter head.

5) The system, according to claim 1, wherein said at least one golf-ball putter head comprises said at least one golf-ball striker.

6) The system, according to claim 5, wherein said at least one golf-ball striker comprise identical characteristics.

7) The system, according to claim 6, wherein said at least one golf-ball striker comprise opposite locations on said at least one golf-ball putter head.

8) The system, according to claim 7, wherein said at least one golf-ball putter head comprises both left-handed and right-handed usability.

9) The system, according to claim 8, wherein said at least one striker elevation restrictor comprises at least one runner.

10) The system, according to claim 9, wherein said at least one runner comprises at least one chamfered surface chamfered back from said at least one golf-ball striker.

11) The system, according to claim 10, wherein said at least one chamfered surface comprises chamfering of at least 45 degrees.

12) The system, according to claim 1, wherein said at least one golf-ball putter head comprises:
   a) less than about 7 inches in overall length, from heel to toe,
   b) greater overall length than overall width.

13) The system, according to claim 12, wherein said at least one golf-ball putter head comprises less than or equal to about 2½ inches in height.

14) The system, according to claim 13, wherein said at least one golf-ball striker comprises an overall length:
   a) greater than or equal to half the length of said at least one golf-ball putter head; and
   b) greater than or equal to two thirds the width of said at least one golf-ball putter head.

15) The system, according to claim 1, wherein said at least one golf-ball putter head comprises:
   a) about 5 inches in overall length, from heel to toe, and
   b) about ¼ inches in overall width.

16) The system, according to claim 15, wherein said at least one golf-ball putter head comprises about 1 inch in height.

17) The system, according to claim 16, wherein said overall length of said at least one golf-ball striker comprises about 4½ inches.

18) The system, according to claim 17, wherein said at least one golf-ball striker comprises a height of about ½ inch.

19) The system, according to claim 18, wherein said at least one golf-ball striker comprises a loft from about 5 degrees to about 10 degrees.

20) The system, according to claim 19, wherein said loft of said at least one golf-ball striker comprises about 9 degrees.

21) The system, according to claim 1, wherein said at least one striker elevation restrictor restricts elevation of lowest edge of said at least one golf-ball striker to about ½ inch above the at least one playing surface.

22) The system, according to claim 21, wherein said at least one striker elevation restrictor comprises at least one runner.

23) The system, according to claim 22, wherein said at least one runner comprises about ½ inch in height.

24) The system, according to claim 23, wherein said at least one runner comprises at least one chamfered surface chamfered back from said at least one golf-ball striker.

25) The system, according to claim 24, wherein said at least one chamfered surface comprises chamfering of at least 45 degrees.

26) A system comprising a golf putter club head having at least one striking surface with at least one minimum striking elevation, during use, from a playing surface greater than or equal to about one radius of at least one standard golf ball, and having at least one runner, which is not part of and does not run into said at least one striking surface, to effect such at least one minimum elevation.

27) A system, relating to at least one putter head of at least one golf club assisting at least one player to swing the golf club in a manner to strike at least one golf ball, resting on a playing surface, at a height of at least about a center point of height of the at least one golf ball, while not contacting the playing surface with the at least one putter head, comprising:
   a) golf-ball putter head means for assisting putting the at least one golf ball; and
   b) shaft attaching means for permitting attaching said golf-ball putter head means to at least one shaft of the at least one golf club;
   c) wherein said golf-ball putter head means comprises
      i) golf-ball striker mean for striking the at least one golf ball, and
      ii) striker elevation restrictor means for restricting elevation of said golf-ball striker means to strike the at least one golf ball resting on the playing surface at a height of at least about a center point of height of the at least one golf ball while not contacting the playing surface with said golf-ball putter head means, when the at least one player swings the golf club;
   d) wherein said striker elevation restrictor means does not comprise said golf-ball striker means; and
   e) wherein said striker elevation restrictor means does not run into said golf-ball striker means.

28) The system, according to claim 27, wherein said golf-ball putter head means further comprises impact twist resistor means for resisting twisting of said golf-ball putter means at impact with the at least one golf ball.

29) The system, according to claim 28, wherein said impact twist resistor means comprises at least one mass distribution comprising inertial resistance to twisting.

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