

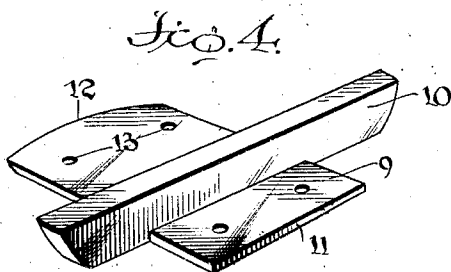
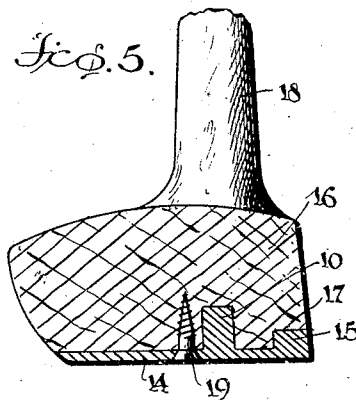
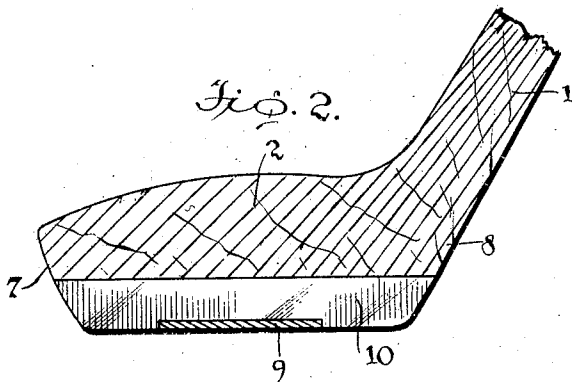
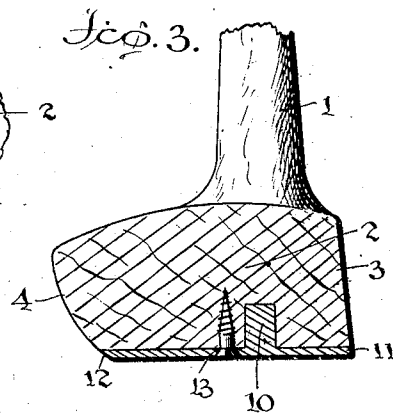
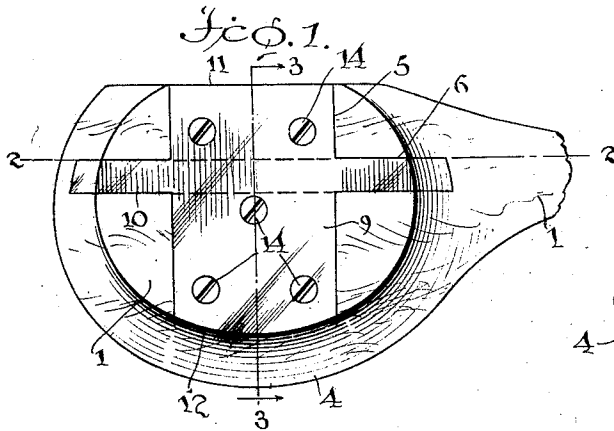
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M. TOOTLE, 3D, ET AL

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GOLF CLUB

Filed March 14, 1924



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GOLF CLUB.

Application filed March 14, 1924. Serial No. 699,243.

To all whom it may concern:

Be it known that we, MILTON TOOTLE, 3d, citizen of the United States, residing at St. Joseph, in the county of Buchanan and State, of Missouri, and JACK T. PATTERSON, subject of Great Britain, residing at Homewood, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Golf Clubs, of which the following is a specification.

This invention relates to a golf club, and has for its object to provide a club of such class, in a manner as hereinafter referred to, with means whereby the club is balanced and reinforced to insure accurate and effective driving power when striking a golf ball.

A further object of the invention is to provide, in a manner as hereinafter set forth, a golf club having the head thereof provided with a weight extending from the toe to the heel of the club and disposed medially with respect to the shaft thereby providing a perfectly balanced club to obtain effective driving when used.

A further object of the invention is to provide, in a manner as hereinafter set forth, a wooden golf club having a reinforced evenly balanced striking head whereby greater accuracy when driving is obtained, and furthermore overcoming the tendency of the ball from curving when the point of contact between the head and ball occurs near the front or near the back end of the driving face.

Further objects of the invention are to provide a golf club, in a manner as hereinafter set forth, which is simple in its construction and arrangement, strong, having a balanced head, compact, thoroughly efficient in its use, and comparatively inexpensive to set up.

With the foregoing and other objects in view, the invention consists of the novel construction, combination and arrangement of parts, as hereinafter more specifically described and illustrated in the accompanying drawings, wherein is shown an embodiment of the invention, but it is to be understood that changes, variations and modifications can be resorted to which come within the scope of the claims hereunto appended.

In the drawings wherein like refer-

ence characters denote corresponding parts throughout the several views:—

Figure 1 is an inverted plan view of the head of a golf club, in accordance with this invention.

Figure 2 is a section on line 2—2, Figure 1.

Figure 3 is a section on line 3—3, Figure 1.

Figure 4 is a perspective view of the combined weight and reinforcing element.

Figure 5 is a transverse sectional view of a modified form.

A golf club in accordance with this invention comprises a shaft 1, a head 2 formed of one piece of material and constructed of wood.

The head 2 is eccentrically disposed with respect to the shaft 1 and is formed with an upwardly and rearwardly inclined driving or striking face 3 at the forward side thereof, and said head further includes a curved rear face 4, which is the follower side of the head.

The bottom of the head 2, which is of less area than the top thereof, is formed centrally with a transversely extending groove 5 of substantial width and depth, and the head 2 is furthermore provided with a lengthwise extending socket 6 opening at the bottom of the head and extending from the toe 7 to the heel 8. The socket is of less width but of greater depth than the groove 5 and opens at the toe 7 as well as at the heel 8. The groove 5 intersects the socket 6 and the latter is positioned to align medially with respect to the shaft 1.

Secured to the head 2, is a combined weighting and reinforcing element consisting of a rectangular plate 9 and a weight 10 which conforms in contour to the shape of the socket 6, as well as being of the same length as the length of the socket 6. The weight 10 is disposed transversely with respect to and formed integral with the plate 9 and further projects from each side edge of said plate. The portions of the weight 10 which projects from the side edges of the plate 9 have the lower faces thereof flush with the outer face of said plate 9. The weight 10 is formed integral with the upper face and side edges of the plate 9, at a point between the center and the forward end 11 of the plate 9. The weight 10 is rectangu-

lar in cross section and has each of its ends conforming in contour to the shape of the toe and heel of the head, whereby when the weight 10 is mounted in position it will be flush with the front and rear of the head.

The forward end of the plate 9 is squared, and the rear end 12 is curvilinear in contour. The plate 9 is of materially less thickness than the height of the weight 11.

The plate 9 is mounted in the groove 5 and is of a width to snugly engage the side walls of the groove and of a thickness whereby when the plate 9 is mounted in the groove 5, the lower face of the plate will be flush with the lower face of the head 2. The weight 10 is seated in the socket 6 and snugly engages the walls thereof throughout, and is of a height to have its lower face flush with the lower face of the head 2. As before stated, the ends of the weight 10 are flush with the forward and rear ends of the head 2.

The plate 9 is formed with a series of openings 13 through which extend hold-fast devices 14 in the form of screws for fixedly securing the combined weighting and reinforcing element to the head 2. The hold-fast devices 14 are countersunk in the outer face of the plate 9.

When the combined weighting and reinforcing element is secured to the head, the bottom of the latter is reinforced and the weight 10 will be positioned to extend in a line intersecting the shaft medially thereof, and by such arrangement a perfectly balanced club is obtained insuring accurate driving.

In the modified form shown in Figure 5, the construction is the same as that hereinbefore referred to, with this exception, that the reinforcing plate, indicated at 14, is provided at its forward end with an integral weight 15 extending transversely of the plate and flush with each side edge thereof. The weight 15 is materially less in height than the weight 10 and the head 16 is grooved, as at 17, to receive the weight 15. Otherwise than that as stated, the construction shown in Figure 5 is similar to that shown in Figure 1. In Figure 5 the shaft is indicated at 18 and the hold-fast devices at 19.

What we claim is:—

1. A golf club comprising a head formed with a transversely extending groove and a lengthwise extending socket intersecting said groove, said socket and groove opening at the bottom of the head, a shaft extended from the rear of the head, a plate seated in said groove and secured to the head, and a weight positioned medially with respect to the shaft, extending transversely of and integral with said plate and of a greater length than the width of the plate and further seated in said socket, said weight extending from each side of the plate and hav-

ing the lower face of said extending portions flush with the outer face of the plate.

2. A golf club comprising a head formed with a transversely extending groove and a lengthwise extending socket intersecting said groove, said socket and groove opening at the bottom of the head, a shaft extended from the rear of the head, a plate seated in said groove and secured to the head, a weight positioned medially with respect to the shaft, extending transversely of and integral with said plate and of a greater length than the width of the plate and further seated in said socket, said weight extending from each side of the plate and having the lower face of said extending portions flush with the outer face of the plate, and said weight extending from the front to the rear of the head and further having its ends flush therewith.

3. A golf club comprising a head formed with a transversely extending groove and a lengthwise extending socket intersecting said groove, said socket and groove opening at the bottom of the head, a shaft extended from the rear of the head, a plate seated in said groove and secured to the head, a weight positioned medially with respect to the shaft, extending transversely of and integral with said plate and of a greater length than the width of the plate and further seated in said socket, said weight extending from each side of the plate and having the lower face of said extending portions flush with the outer face of the plate, and said weight extending from the front to the rear of the head and further having its ends flush therewith, said weight of materially greater height than the thickness of the plate and positioned on the plate at a point between the transverse center and the forward end thereof.

4. In a golf club a combined balancing and reinforcing element for and adapted to be seated in the head thereof, said element consisting of a polygonal-shaped plate, and a weight formed integral with the upper face of and extending transversely with respect to said plate, said weight of a length to extend from the side edges of the plate.

5. In a golf club a combined balancing and reinforcing element for and adapted to be seated in the head thereof, said element consisting of a polygonal-shaped plate, and a weight formed integral with the upper face of and extending transversely with respect to said plate, said weight of a length to extend from the side edges of the plate, said weight of materially greater height and thickness than the thickness of the plate and arranged thereon at a point between the center and front end thereof.

6. In a golf club a combined balancing and reinforcing element for and adapted to be seated in the head thereof, said element

consisting of a polygonal-shaped plate, and a weight formed integral with the upper face of and extending transversely with respect to said plate, said weight of a length
5 to extend from the side edges of the plate, said weight of materially greater height and thickness than the thickness of the plate and arranged thereon at a point between the center and front end thereof, the portions of the
10 weight extended from the side edges of the plate having the lower face thereof flush with the lower face of the plate.

7. In a golf club a combined balancing and reinforcing element for and adapted to
15 be seated in the head thereof, said element consisting of a polygonal-shaped plate, and a weight formed integral with the upper face of and extending transversely with respect to said plate, said weight of a length
20 to extend from the side edges of the plate, said weight of materially greater height and thickness than the thickness of the plate and arranged thereon at a point between the center and front end thereof, the portions of
25 the weight extended from the side edges of the plate having the lower face thereof flush with the lower face of the plate, and said weight of a length to extend from the toe to the heel of the head in which said element
30 is seated.

8. A golf club comprising a head, a shaft extending therefrom, a transversely extending plate mounted in the bottom of said head, and a weight mounted in and extending
35 lengthwise of the head and positioned medially with respect to said shaft, said weight extending transversely of the upper face of the plate and further projecting from the side edges thereof.

9. A golf club comprising a head, a shaft extending therefrom, a transversely extending plate mounted in the bottom of said head, and a weight mounted in and extending
40 lengthwise of the head and positioned medially with respect to said shaft, said weight extending transversely of the upper face of the plate and further projecting from the side edges thereof, said plate and weight flush with the bottom of said head,

said plate having its ends flush with the 50 sides of the head, and said weight having its ends flush with the front and rear of the head.

10. A golf club comprising a shaft, a head projecting forwardly from the lower end 55 thereof and provided with a socket extending lengthwise thereof and opening at the front and at the rear and at the bottom of said head, said socket positioned medially with respect to said shaft, said head further
60 provided with a transverse groove intersecting said socket and extending from the forward to the rear side of the head, said groove of materially less depth than the depth of the socket, a plate mounted in said groove
65 and secured to the head, and a weight snugly fitting said socket throughout and formed integral between its ends with said plate.

11. A golf club comprising a shaft, a head 70 projecting forwardly from the lower end thereof and formed with a vertical socket opening at its bottom, said socket extending from the toe to the heel of the head and disposed throughout in medial alinement with
75 respect to the shaft, a plate secured to the bottom of the head, and a weight integral with the plate and snugly fitting said socket throughout, said weight having its ends
80 flush with the toe and heel of the head.

12. A golf club comprising a shaft, a head projecting forwardly from the lower end thereof and formed with a vertical socket opening at its bottom, said socket extending
85 from the toe to the heel of the head and disposed throughout in medial alinement with respect to the shaft, a plate secured to the bottom of the head, and a weight integral with the plate and snugly fitting said socket throughout, said weight having its ends
90 flush with the toe and heel of the head, said weight of materially greater thickness than said plate.

In testimony whereof, we affix our signatures hereto.

MILTON TOOTLE, 3d.
JACK T. PATTERSON.