W. G. RUGGLES.

GOLF STICK.

APPLICATION FILED JUNE 3, 1918.

1,327,171.

Patented Jan. 6, 1920.

Fig. 1.

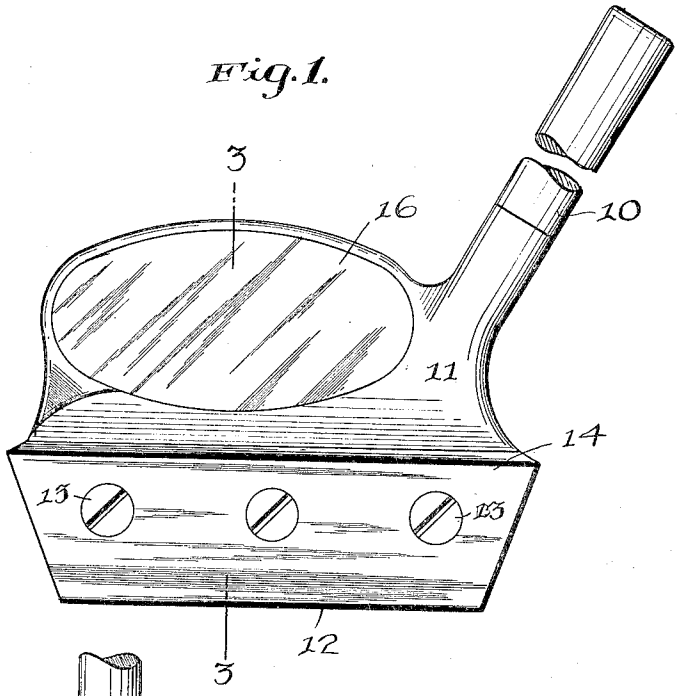


Fig. 2.

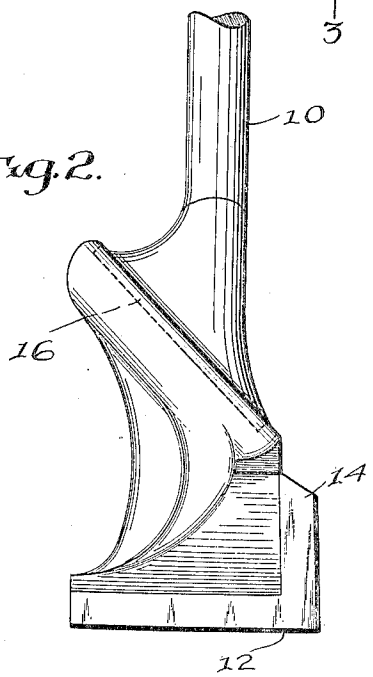


Fig. 3.

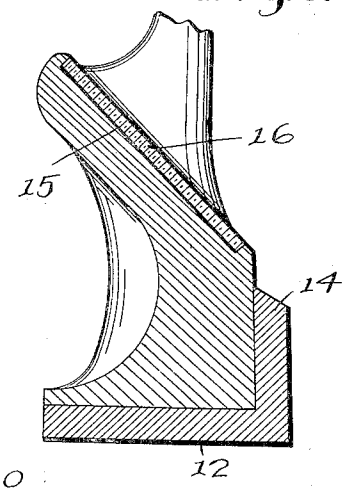
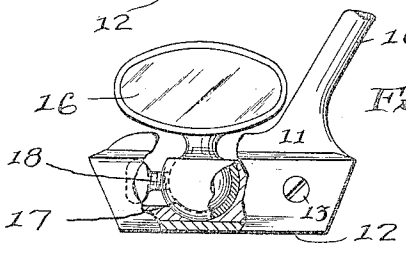


Fig. 4.



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GOLF-STICK.

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To all whom it may concern:

Be it known that I, WILLIAM GUY RUGGLES, a citizen of the United States, and resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Golf-Sticks, of which the following is a specification.

My invention relates in general to golf clubs and similar object driving tools and specifically relates to an improvement in golf sticks of the type known as putter.

In playing a golf ball on the green, the golfer is cautious that the striking face of the putter approaches the ball in the correct line to insure the ball moving toward or into the hole or other objective "cup" for receiving the same. It has been suggested to position pointers of different kinds on the head of the putter but these pointers are not entirely satisfactory for it necessitates the player holding the club in upright position and then stooping down to bring his eye in sighting position along the pointer.

One of the objects of this invention is to provide a form of putter, designed so that the operator from his playing position can adjust the angularity of the striking face of the club with the assurance that it will be in alinement with the ball and the cup on the green and without the necessity of stooping over to verify the alinement.

Broadly, I attain this invention by disposing a reflector in position on or adjacent to the head of the club and so arranged that the images of objects in advance of the striking face of the club are reflected upwardly to the operator while in upstanding playing position.

Another object of the invention is to provide an adjustable reflector so as to vary the angle at which the club attacks the ball and at the same time reflect the superimposed images of the ball and objective cup.

Various other objects and advantages of the invention will be in part obvious from an inspection of the accompanying drawings and in part will be more fully set forth in the following particular description of one form of mechanism embodying my invention and the invention also consists in certain new and novel features of construction and combination of parts hereinafter set forth and claimed.

Referring to the accompanying drawings:—

Figure 1 is a view in front elevation of the lower portion of a golf club of the putter type;

Fig. 2 is a view in end elevation looking at the device shown in Fig. 1 at the left hand side thereof;

Fig. 3 is a vertical sectional view taken on the line 3—3 of Fig. 1; and

Fig. 4 is a view in front elevation of a modified form of the invention with parts broken away to show details of construction.

In the drawing there is shown a putter including a stick or handle 10, a head 11 provided with an angle iron 12 fastened thereto by means of screws 13 passing through the upstanding flange 14 constituting the striking face of the club. It is understood that the device as thus far described is of conventional form and is intended merely to illustrate one form of tool to which the attachment constituting the subject-matter of this invention may be affixed.

In the drawing and particularly referring to the form of device illustrated in Figs. 1, 2 and 3, the upper portion of the head is flattened and enlarged to provide a seat 15 for a reflector 16 herein shown to be a flat glass mirror somewhat oval in plane as shown in Fig. 1. The reflecting surface of this mirror is flat and is disposed in a plane which if projected would intersect the plane of the striking surface 14. The reflector is inclined at 45° to the vertical and faces in the general direction which the striking face is facing whereby the images of objects directly in front of the striking face is visible on the reflecting surface by the operator while in playing position.

Certain players insist that the ball should not be struck in a direction in line with the objective but that the ball should be struck at an angle to give an "English" to ball. As the angularity of attack differs with different players it is proposed to provide an adjustable reflector. Fig. 4 illustrates the mirror 16 carried in a supporting frame which is mounted in the head of the club through the agency of a ball and socket connection 17. The reflector is thus

mounted for universal adjustment in all planes and secured in adjusted position by a set screw 18.

In operation the player approaches the ball with the striking face of the putter on the side of the ball opposite the hole or other objective to which it is desired to direct the ball, and the player shifts the striking face about an arc with the ball as a center and until the image of the center of the ball is in alinement with the image of the objective. When the images are superimposed, the player knows that the striking face is so disposed with reference to the ball, that if the striking face engages the ball while the images are thus maintained in alinement, the ball will be directed toward the objective.

By means of a device of this character, it is possible to rectify the line of attack of the putter in its approach to the ball without the necessity of the operator stooping down to bring his eye in the alinement of the ball and cup.

While I have shown and described, and have pointed out in the annexed claims, certain novel features of my invention, it will be understood that various omissions, substitutions and changes in the form and details of the device illustrated and in its operation may be made by those skilled in the art without departing from the spirit of the invention.

Having thus described my invention I claim:—

1. A golf tool provided with a head having a striking face, a reflector positioned above said face and a ball and socket connection between the reflector and the head providing for universal adjustment of the reflector in all planes relative to the striking surface.

2. A golf tool, provided with a reflector and means mounting the reflector in position for universal adjustment about a point of reference.

3. A golf tool provided with a head having a vertically disposed striking face, a handle extending upwardly at an angle to said striking face, a reflector positioned above and to the rear of said face in position to be visible to the operator holding the handle and a mounting for the reflector providing for the adjustment of the reflector about a vertical axis thereby to dispose the reflector at variable angles to the plane of the striking face.

Signed at New York city in the county of New York and State of New York this 24th day of May, A. D. 1918.

WILLIAM GUY RUGGLES.