

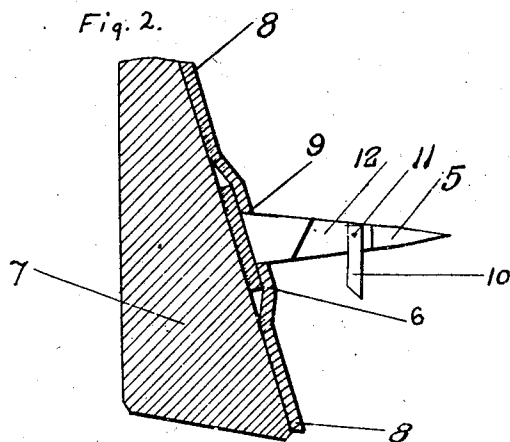
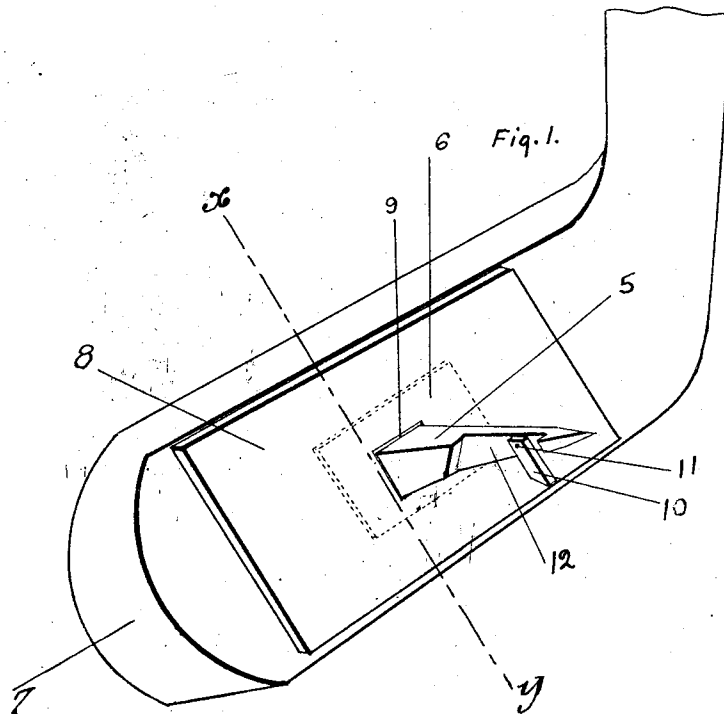
Sept. 21, 1926.

1,600,466

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PUNCTURING PIN FOR GOLF CLUBS

Filed Dec. 8, 1923



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Patented Sept. 21, 1926.

1,600,466

UNITED STATES PATENT OFFICE.

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PUNCTURING PIN FOR GOLF CLUBS.

Application filed December 8, 1923. Serial No. 679,331.

The present invention relates generally to improvements in golf practicing and training devices wherewith a player may, while away from a golf course, practice and train in parts of the game and, from such practice and training, acquire greater proficiency in playing an actual game of golf upon the golf course.

The invention relates particularly to a puncturing pin secured on the striking face of a golf club used in hitting a golf practice ball.

One object of the invention is to provide a puncturing means for indicating, on the golf practice ball used, the accuracy with which the practice stroke has been made. Heretofore in hitting the golf practice ball, in the different practice blows, the ball when hit, if hit at all, is projected to a distance from the player, requiring that an elaborate blocking and returning means be provided or that the player leaves his hitting position and himself retrieves the golf practice ball.

So another object of the invention is to provide, in connection with the puncturing means used, a means on the club for retrieving certain classes of golf practice balls, or substitutes for a golf ball, whereby the golf practice ball, or the substitute for a golf ball, after being hit by the club, may be retrieved by the club, itself, in the completion of the blow and thereby allow the player to do his practicing in a relatively limited space.

Golf practice balls, or substitutes for golf balls, adapted to be used to attain the object set forth above, have already been proposed and described, reference being also had to my copending application Serial Number 682,874. Other advantages will appear as the device is better understood from the particulars of the same herein set forth in detail.

In the accompanying drawing where like numbers designate the same parts throughout the different views—

Fig. 1 is a perspective view of the device as attached to the striking face of an iron golf club.

Figure 2 is a cross section on the line $x-y$ of the Figure 1, giving a side view of some parts and a sectional view of the other parts of the device.

In carrying the invention into effect a sheet member 6 is provided, one face of which is made to contact with and lie flatly against the striking face of a golf club 7.

From the opposite face of the sheet member 6 a sharp pointed pin 5 is made to project outwardly and forwardly therefrom in what is called the line of play. Or describing the same construction in other words, a sharp pointed pin 5 is provided upon which is formed a head 6 flattened in a plane traversing the length of the pin 5 and is here shown of rectangular shape in that plane. The flattened head 6 being shaped to contact with and lie flatly against the striking face of the club 7. The pin 5 is made to project from the sheet member 6, also called the flattened head 6, in a plane horizontal to the surface played upon, when and after the contacting face of the sheet member 6, also called the flattened head 6, has been secured to the striking face of the club 7 and the club 7 is properly soled, as understood in golf, when addressing the golf practice ball to be hit by the club 7. As the striking face of the different classes of golf clubs have differing lofts, or in other words, lie in planes varying in angle as to the surface played upon, so it follows that the pin 5 will be made to project from the sheet member 6, also called the flattened head 6, at such varying angles thereto as may be determined by the loft of the club proposed for use.

A method proposed for securing the contacting face of the sheet member 6, also called the flattened head 6, to the striking face of the golf club 7 is by the means of an adhesive substance. The adhesive may be either applied in the fluid state to the contacting face of the sheet member 6, also called the flattened head 6, and then that member secured at once on and to the striking face of the club 7. Or the adhesive, in the fluid state may be applied to the contacting face mentioned above and dried thereon and at a later time the dry adhesive may be moistened and then the said above mentioned face secured to the striking face of the club 7.

In order to more securely fasten or hold the pin 5 to the striking face of the club 7, a covering sheet member 8 is provided of a greater superficial extent than the sheet member 6, also called the flattened head 6. An opening or aperture 9 is formed extending through the body of the covering sheet 8 from one face to the opposite face thereof. The pin 5 is made to project through and beyond the aperture 9, or the pin 5 if and

when forced through the covering sheet 8 may be made to make its own aperture, and the covering sheet 8, owing to its relatively greater extent, will cover and overrun the sheet member 6, also called the flattened head 6. The overrunning portions of the covering sheet 8 will be made to contact with and lie flatly against the striking face of the golf club 7. The covering sheet 8 is intended to be fashioned from some material, such as duck, paper, leather, fibre or the like, that will lend itself readily to be secured by an adhesive to the striking face of the club 7. The adhesive may be applied in the fluid state to the contacting face of the covering sheet 8 and that member secured at once to the striking face of the club 7, or the adhesive may be applied to the contacting face of the covering sheet 8 and dried thereon and at a later time moistened and the covering sheet 8 then secured to the striking face of the club 7. By such a method the sheet member 6, also called the flattened head 6, will be secured between the covering sheet 8 and the striking face of the club 7 with the pin 5 extending through and beyond the covering sheet 8 outwardly and forwardly from the striking face of the club 7 into and along the line of play.

As a means for retaining on the puncturing pin 5 an object punctured by the pin 5, among which would be the golf practice balls, or substitutes for a golf ball, mentioned at the beginning of this specification, a barb 10 is fashioned on or secured to the puncturing pin 5. The barb 10 may be formed integral with the pin 5, or immovably secured to the pin 5, or carried on the pin 5 in a manner to permit the collapsing or the folding up against or into the pin 5, of the barb 10 and in each instance act as, and fill the purpose of, a barb. The barb 10, as herein intended to collapse, or fold up, is hung in a recess 12 to the pin 5 by a pivot 11. The recess 12 is formed in the side of and longitudinally of the pin 5 of a less length than the pin 5, falling short in length at both the sharpened point of the pin 5 and at the head 6, also called the sheet member 6, of the pin 5. The pivot 11 is immovably secured to the pin 5 at a point in the recess 12 lying between the longitudinal center of the recess 12 and that end of the recess 12 nearest the sharpened point of the pin 5. The barb 10 is hung on the pivot 11 to freely swing thereon and hang normally in a downwardly depending position and will lie between, and divide the recess 12 into, two sections of the recess 12 of unequal length. The barb 10 is made of such a dimension and shape that, when swung on the pivot 11, in the shorter forward section of the recess 12, towards the sharpened point of the pin 5, it will at once contact against the forward end of the recess 12 and be held

projecting downwardly and away from the pin 5, and when swung in the opposite direction, in the longer section of the recess 12, towards the striking face of the club 7, the barb 10 will collapse and fold into and be hidden in the recess 12. The ends of the recess 12 are shaped to aid in such results; the rearward end being shaped to receive and hold the barb 10 hidden in the recess 12 and the forward end is shaped to hold the barb 10 projecting downwardly from the recess 12 and the pin 5.

When the club 7 with the device, as so far described, is used to hit into a perforable object, as the golf practice balls and substitutes before mentioned, it is intended that the pin 5 and the barb 10 will enter and pass entirely through the perforable object and the object be brought to rest against the means securing the pin 5 to the striking face of the club 7. During such entire passing of the pin 5 and the barb 10 through the perforated object the barb 10 will collapse and be folded back into the longer rearward section of the recess 12 by the resistance of the object perforated. When the barb 10 has passed entirely through the object perforated it will swing on the pivot 11 back to its downwardly depending normal position and hold the punctured object on the pin 5.

To release an object from the pin 5, held thereon by the barb 10, the club 7 may be up-ended or stood in a reverse position to that occupied when in play, whereupon the barb 10 will collapse and fall into the longer rearwardly extending section of the recess 12 and being entirely contained the pin 5 and the collapsed infolded barb 10 may be easily retired from the object punctured without further rupturing of the object punctured.

In a blow with a club, provided with a puncturing pin as above described, an object may be punctured and the puncture observed in relation to a predetermined point provided on the object punctured and the accuracy or inaccuracy of the blow determined.

Having described the invention in language intended to be descriptive and not limiting, mention is made of the fact that modifications may be made in the form, design, construction, connections or in other particulars concerning the parts shown without departing from the spirit and scope of the invention as set forth in the claims annexed hereto.

What I claim as new and desire to secure by Letters Patent is:—

1. In a puncturing pin for a golf club, in combination, a sheet member, an adhesive means on one face of the said sheet member for securing the said face to the striking face of the golf club and a pointed pin extended from the opposite face of the said

sheet member outwardly and forwardly therefrom and horizontally to the surface played upon, when the club is properly soled, after the said sheet member is secured to the striking face of the club.

2. In a puncturing pin for a golf club, in combination, a pin pointed at one end, a head on the opposite end of the pin flattened in a plane traversing the length of the pin, a sheet member covering the said flattened head and extended beyond the limits thereof, and through which said covering sheet member the said pin projects by means of an aperture formed in and through the said covering sheet member, and an adhesive means on the covering face of the said covering sheet member for securing the said covering sheet member to the striking face of the club and thereupon securing the said flattened head of the said pin between the said covering sheet member and the striking face of the club.

3. In a puncturing pin for a golf club, in combination, a pin pointed at one end, a flattened head formed on the opposite end of the pin, a sheet member covering and overrunning the flattened head and through which covering sheet member the pin projects by means of an aperture formed in and through the covering sheet member, an adhesive means on the covering face of the covering sheet member for securing the covering sheet member to the striking face of the club and thereupon securing the said flattened head of the pin between the said covering sheet member and the striking face of the club and a barb provided on the said pin.

4. In a puncturing pin for a golf club, in combination, a pin pointed at one end, a flattened head on the opposite end of the said pin, a sheet member covering and overrunning the said flattened head into and through which covering sheet member the said pin is

made to project, an adhesive means on the covering face of the said covering sheet member for securing the said covering sheet member to the striking face of the club and thereupon securing the said flattened head of the said pin between the said covering sheet member and the face of the club and a barb pivoted on the said pin normally projecting therefrom.

5. In a puncturing pin for a golf club, comprising, a pin carried on the striking face of the club and a barb provided on the pin disposed to resist the extraction of the pin from an object pierced by the pin and the barb.

6. In a puncturing pin for a golf club, in combination, a pointed pin, means for securing the pin on the striking face of the club and a barb on the pin disposed to resist the extraction of the pin from an object pierced by the pin and the barb.

7. In a puncturing pin for a golf club, in combination, a pin held on the striking face of the club with the point of the pin projecting outwardly and forwardly from the said face and a folding barb on the said pin.

8. In a puncturing pin for a golf club, in combination, a pin carried on the striking face of the club with the point of the pin projecting outwardly and forwardly from the said face of the club horizontally to the surface played upon and a collapsing barb on the pin folding into and out of longitudinal alignment with the pin.

9. In a puncturing pin for golf clubs, in combination, a pointed pin carried on the striking face of the club with the point projecting away therefrom, a longitudinal recess in the pin and a barb pivoted in the recess and swinging into and out of the recess.

Dec. 4th 1923.

WILLIAM J. GOLDSWORTHY.