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2,175,598

ADJUSTABLE GOLF CLUB HEAD

Filed Sept. 27, 1938

Fig. 1.

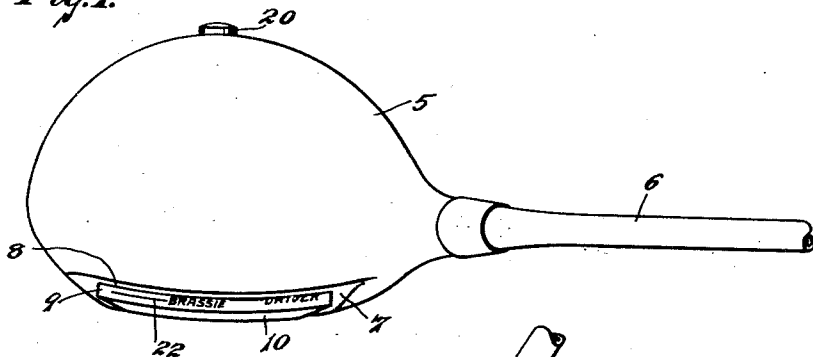


Fig. 2.

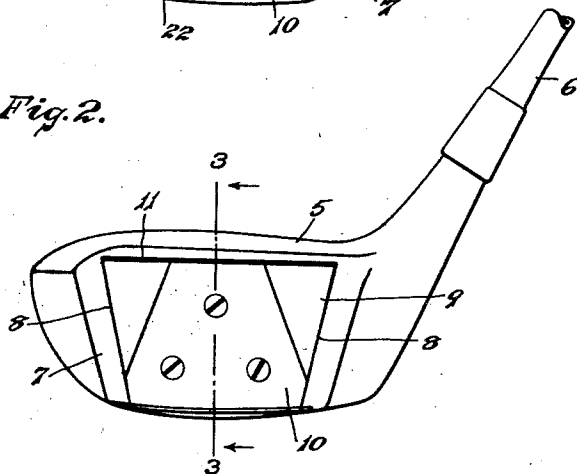


Fig. 4.

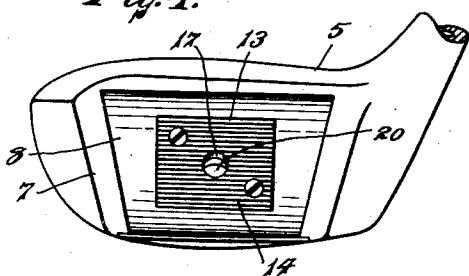


Fig. 3.

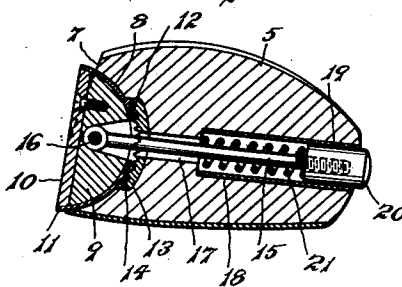
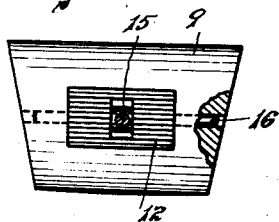


Fig. 5.



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ADJUSTABLE GOLF CLUB HEAD

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5 Claims. (Cl. 273—79)

This invention relates to adjustable golf club heads. It is commonly known that a golf club, having a head with a ball striking face which is disposed at the proper angle, is required in order to give the ball the desired amount of "lift" when it is struck. For this reason, a multiplicity of golf clubs such as the driver, brassie, spoon etc. have heretofore been used so as to provide heads with ball striking faces that are disposed at different angles for imparting different degrees of "lift" to the ball. As an example, a driver club has a striking face at an angle of approximately 10°, a brassie club 13° and a spoon club 16°.

An object of this invention, therefore, is to provide a golf club head having a striking face which may be adjusted to different angles so that one club will serve in place of three or more clubs which have heretofore been necessary in order to obtain the different degrees of "lift" desired upon striking the ball.

A further object, of this invention, is to provide a head which is strong, simple in construction and easily adjustable without the use of tools or the like, to provide means whereby the striking surface may be solidly supported at different angles, and in locked position in the club head and, further, to provide means whereby the face can be adjusted at fixed predetermined angles and indicia indicating the type or name of the club for which the angle is set.

Further objects of the invention will be clearly apparent from the accompanying drawing and from the following description in which:

Figure 1 is a plan view, in elevation, of a golf club head embodying my invention.

Figure 2 is a front view of the same.

Figure 3 is a view in central vertical section on line 3—3 of Figure 2.

Figure 4 is a front view of a golf club head with the adjustable face member removed therefrom.

Figure 5 is a rear view, in elevation, of the adjustable face member.

As indicated in the drawing, the numeral 5 denotes a golf club head of a conventional form to which is attached the handle 6.

The front face 7 of said head is provided with a cavity 8 in which is mounted an adjustable member 9 having a ball striking face 10 at the front thereof. The said member is preferably provided with a covering 11 on which are a series of teeth 12. A plate 13 is mounted in the bottom of the cavity 8 and is also provided with a series of teeth 14 which are adapted to interlock with the teeth 12 of the adjustable member.

The periphery of the said member 9, and of the

cavity 8 are both formed on a single radius so that the said adjustable member may be rotated in said cavity and still remain constantly in close contact with the surface of the cavity; thus providing a solid connection and support between the club body and the striking face of the said adjustable member.

A bar 15 is pivoted upon the adjustable member 9, by means of a pin 16, and extends through an opening 17, in the club head, into an enlargement 18 of said opening which is preferably lined with a tube 19. A push button 20 is threaded to the end of the said rod and a compression spring 21 is located between the said push button and the end of the enlarged opening 18 so that pressure is constantly applied by said spring against the button 20, tending to pull the adjustable member into the cavity 12 and retain the same firmly in engagement with the bottom thereof with the teeth 12 of said member interlocking with the teeth 14 in said bottom.

Indicia, as indicated at 22, may be provided upon the surface of the member 9 in the form of a line which may be brought into register with the edge of the club head adjacent the cavity 8 so as to indicate the position of the adjustable member for the different clubs or angles desired.

The teeth 12 are properly spaced in order to provide for the proper angular positions. For instance, they may be spaced 3½° apart so that by simply turning the member 8 to an approximate position and releasing same, the teeth will mesh in proper relation to give the correct angle for the particular club or "lift" desired.

When it is desired to change the position of the striking face from one angle to another, pressure is applied with a finger upon the button 20. This will force the member 9 outwardly from the recess 8, against the pressure of the spring 21 and disengage the teeth 12 from the teeth 14. The member is then turned on the pivot 16 to the position desired and the pressure on the button 20 is released to permit the spring 21 to return the member 9 into the recess 8 and bring the teeth 12 and 14 into interlocking engagement. Thus the said member 9 is firmly seated in the recess 8 and retained in position at the proper angle by means of the engagement between the teeth.

It will be, therefore, readily understood that, by means of my invention, a player may quickly adjust his club head so that it will have a striking face which is at the proper angle to serve for the club with which it is desired to strike the ball from whatever position it might be in. Thus,

the necessity of having three or more clubs is eliminated.

My invention is particularly desirable as there is a tendency towards reducing the number of clubs in a golfer's set in order to lighten the weight which has to be carried around the course in a golf bag.

While I have described and illustrated one particular form of my invention as applied to a golf club head, it is to be understood that the same may be used in various other forms without departing from the scope of my invention as set forth in the following claims.

I claim:

1. A golf club head comprising a member adjustably mounted thereon and having a ball striking surface on the face thereof, teeth on said member and head adapted to interlock for retaining the said member in adjusted position, a bar pivotally mounted on said member and extending transversely in said head, spring means acting to retain said member in said head, and said teeth in inter-engagement, and finger operated means for compressing said spring means and thereby releasing said member to permit angular adjustment thereon.

2. A golf club head having the front thereof provided with a recess, a member mounted in said recess, the surface of said recess being concaved and the surface of said member being convexed and both being on a single radius to provide close contact between the surface of said member and said recess and to permit angular adjustment of said member on said head, spring means for retaining said member in said recess, teeth extending from said member and adapted to interlock with teeth in the surface of said recess to prevent angular displacement of said member, spring means for retaining said mem-

ber in seated position within said recess and said teeth interlocked, and a push button extending from the side of said head whereby the said member may be moved away from the head to permit angular adjustment thereof and then returned to seated position upon the said button being released.

3. A golf club head having a semi-circular recess, a semi-circular member fitting within said recess and having a ball striking surface adapted to be disposed at different angles relative to said head, means for inter-connecting said member with said head for retaining the same against angular displacement thereon, said means comprising corresponding extensions and recesses upon the surface of said member and the bottom of said recess, spring means for retaining said member in said recess and said extensions and recesses in interlocked relation, and means for releasing said spring means to permit adjustment of said member in said head.

4. In a golf club head including a member having a striking face adjustably mounted in said head, locking means including a plate having teeth and mounted in fixed position on said head, teeth on said member adapted to interlock with teeth on said plate and spring means for urging said teeth to interlock and thereby retain the said member in locked position in said head.

5. A golf club head having a front provided with a concaved recess, a plate mounted in said recess, teeth on said plate, a member fitting into said recess, teeth on said member adapted to interlock with the teeth on said plate, spring means urging said teeth into interlocking position and manually operable means for disengaging the said teeth to permit adjustment of said member with relation to said head.

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