

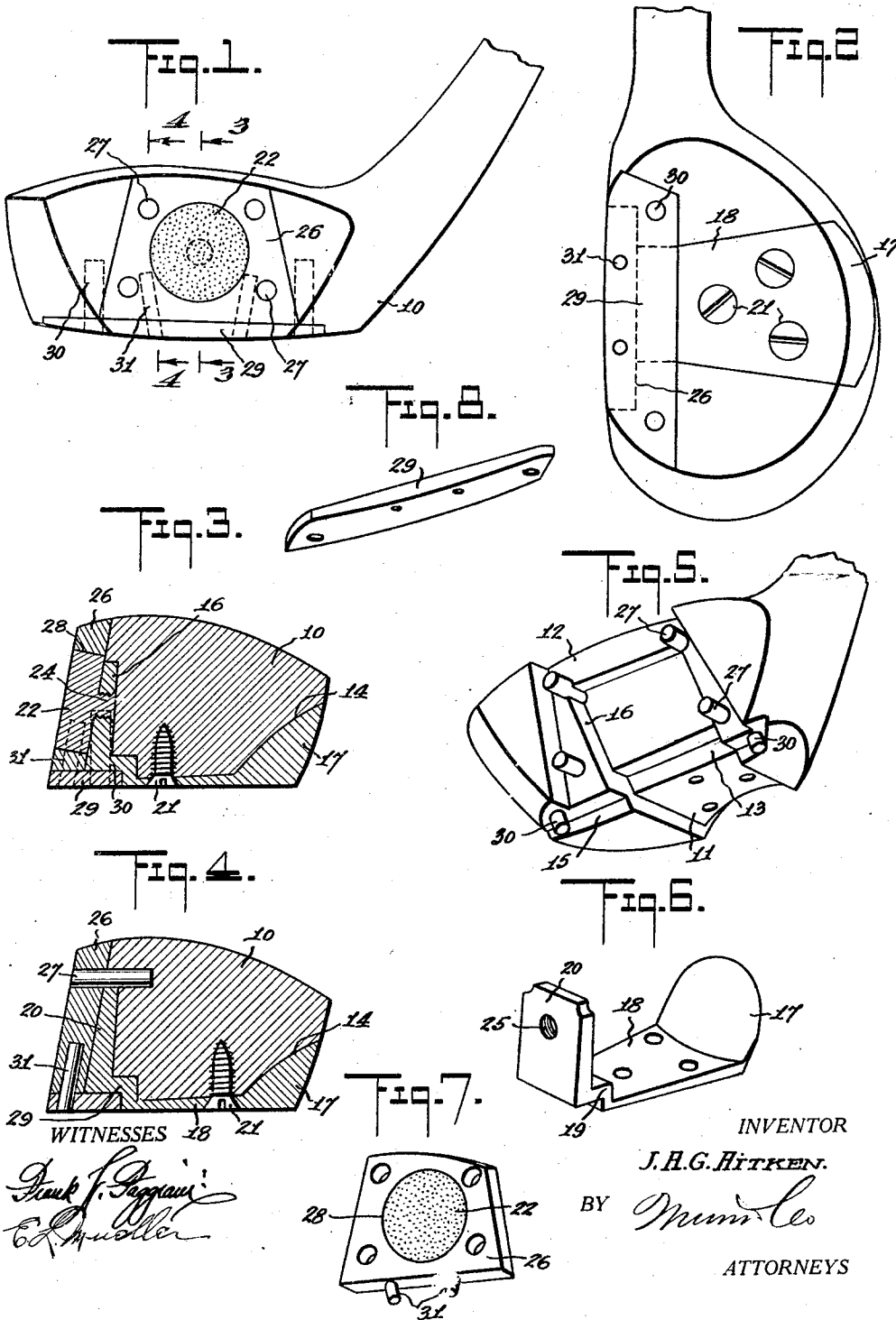
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GOLF CLUB

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UNITED STATES PATENT OFFICE.

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GOLF CLUB.

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To all whom it may concern:

Be it known that I, JAMES A. G. AITKEN, a citizen of the United States, and a resident of the city of Holyoke, in the county of Hampden and State of Massachusetts, have invented a new and Improved Golf Club, of which the following is a full, clear, and exact description.

This invention relates to improvements in golf clubs and has particular reference to a golf club head.

An object of the invention is to provide an improved head of simple and practical construction in which the weight employed is so formed as to maintain the head properly balanced and make the striking force of the club head most effective.

The above and other objects will appear more clearly from the following detailed description when taken in connection with the accompanying drawing which illustrates a preferred embodiment of the inventive idea.

In the drawing—

Figure 1 is a front elevation of the club head constructed in accordance with the invention;

Figure 2 is a bottom plan view thereof;

Figure 3 is a section on the line 3—3 of Figure 1;

Figure 4 is a section on the line 4—4 of Figure 1;

Figure 5 is a perspective view of the head with the weight and other parts removed;

Figure 6 is a perspective view of the weight;

Figure 7 is a similar view of the face insert employed in connection with the invention;

Figure 8 is a perspective view of the sole plate.

The head 10 of the club may be made of any suitable material, such as persimmon wood, and its general exterior configuration is substantially the same as that of the ordinary wooden headed club.

In the formation of the head, the bottom and striking face thereof are provided with communicating recesses 11 and 12 respectively, and at the juncture of said recesses the head is further reduced to provide another recess 13 having angularly disposed sides for a purpose which will presently appear. The recess 11 in the bottom of the head is enlarged at the rear of the head, as

indicated at 14, and the sides of the recess are converged forwardly toward the striking face. At the forward ends of the sides of the recess 11 the bottom is again cut away to form a recess 15 which extends transversely across practically the entire bottom of the head. The recessed portion 12 of the striking face is further reduced to provide the additional recess 16, the lower transverse edge of which forms one of the edges of the recess 13.

The weight which is employed in connection with the present invention is made to conform to the contour of the recesses 11, 13 and 16 of the club head and is provided with a rear tapered portion 17 which fits the portion 14 of the recess 11 in the rear of the head. The sole plate portion 18 of the weight has its sides converging forwardly, and said portion is slightly tapered so that its greatest thickness is at the rear of the plate. In this connection the bottom of the recess 11 is slightly inclined with respect to the horizontal so that when the weight is secured in position, the tendency thereof will be to wedge itself against the bottom of the head when the ball is struck. In this connection it is well known that the usual weight employed in heads, due to the force of impact of the head with the ball, soon embeds itself a considerable distance in the club head, with the result that the original balance of the latter is totally destroyed. With the sole plate 18 in the portion of the recess 11 receiving the same tapered as described, this tendency of the weight to be driven forward into the head is minimized. The present head embodies further features to be presently described which tend toward preventing any shifting of the weight as above referred to. At the forward end of the sole plate 18 there is provided a shoulder or angular portion 19 which fits into the recess 13 and when the weight is in position the portions thereof forming the lower sides of the portion 19 extend co-incidental with the surfaces of the recess 15 in the club head. The front of the weight is formed by the vertical face plate portion 20 which is tapered upwardly and which fits into the recess 16. The taper is produced by an inclination of the front face of the portion 20 and the degree of this inclination depends upon the loft which it is desired to impart to the striking face of the head. The weight

is secured in the position described by means of suitable fasteners, such as screws 21 extended through the sole plate of the weight.

When the weight is in position, the front face of the portion 20 is flush with the bottom of the recess 12, and after being placed in such position a face plug 22 of any desirable material is connected to the weight, preferably by screw threaded extension 24 engageable with an opening 25 formed in the face plate portion 20 of the weight, the inner face of the plug 22 being engaged with the forward face of the portion 20 when the plug is in position. A face insert 26 made of fibre or other suitable material and conforming to the contour of the recess 12 is then disposed in said recess with the dowel pins 27 extending therethrough, the insert 26 having a central opening 28 into which the plug 22 extends and the thickness of the plug and insert being the same so that the outer faces thereof will be flush with each other and with the remaining portions of the striking face of the head.

A sole plate 29, which may also be made of fibre, is then mounted in position in the recess 15, said plate conforming to the shape of said recess and being held in position by dowel pins 30 adjacent the ends of the recess and also by similar pins 31 carried by the lower edge of the face insert 26. When the parts are thus combined the face plate portion 20 is interposed between the bottom of the recess 16 and the plug 22 and lower edge portion of the face insert 26, and with the latter two elements held in position as described it will be apparent that the same afford a rigid abutment for the weight so as to further prevent any forward shifting of the latter due to impact of the club head with a ball.

Having thus described the invention, what is claimed is:

1. A golf club including a head, a weight including sole and face plate portions recessed in the bottom and face of said head, respectively, a face insert also recessed in the face of said head and forming a part of the striking face of said head, said face plate portion being positioned between the bottom of the recess receiving the same and said insert, and a removable face plug mounted in said insert and engageable with said face plate portion.

2. A golf club including a head, a weight including sole and face plate portions recessed in the bottom and face of said head, respectively, a face insert also recessed in

the face of said head and forming a part of the striking face of said head, said face plate portion being positioned between the bottom of the recess receiving the same and said insert, and a sole plate also recessed in the bottom of said head contiguous to the striking face thereof.

3. A golf club including a head, a weight including sole and face plate portions recessed in the bottom and face of said head, respectively, and having an angular portion at the juncture of said sole and face plate portions, a face insert recessed in the face of said head and forming a part of the striking face of said head, said face plate portion being positioned between the bottom of the recess receiving the same and said insert, and a sole plate also recessed in the bottom of said head contiguous to the striking face thereof and having a portion engaging the angular portion between said sole and face plate portions.

4. A golf club including a head, a weight including sole and face plate portions recessed in the bottom and face of said head, respectively, and having an angular portion at the juncture of said sole and face plate portions, a face insert recessed in the face of said head and forming a part of the striking face of said head, said face plate portion being positioned between the bottom of the recess receiving the same and said insert, a sole plate also recessed in the bottom of said head contiguous to the striking face thereof and having a portion engaging the angular portion between said sole and face plate portions, and a removable face plug mounted in said insert and engageable with said face plate portion.

5. A golf club including a head, a weight including sole and face plate portions recessed in the bottom and face of said head, respectively, the sole plate portion being tapered toward the face plate portion and the latter portion being tapered upwardly, a face insert recessed in the face of said head and forming a part of the striking face of said head, said face plate portion being positioned between the bottom of the recess receiving the same and said insert, a sole plate also recessed in the bottom of said head contiguous to the striking face thereof and having a portion engaging the angular portion between said sole and face plate portions, and a removable face plug mounted in said insert and engageable with said face plate portion.

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