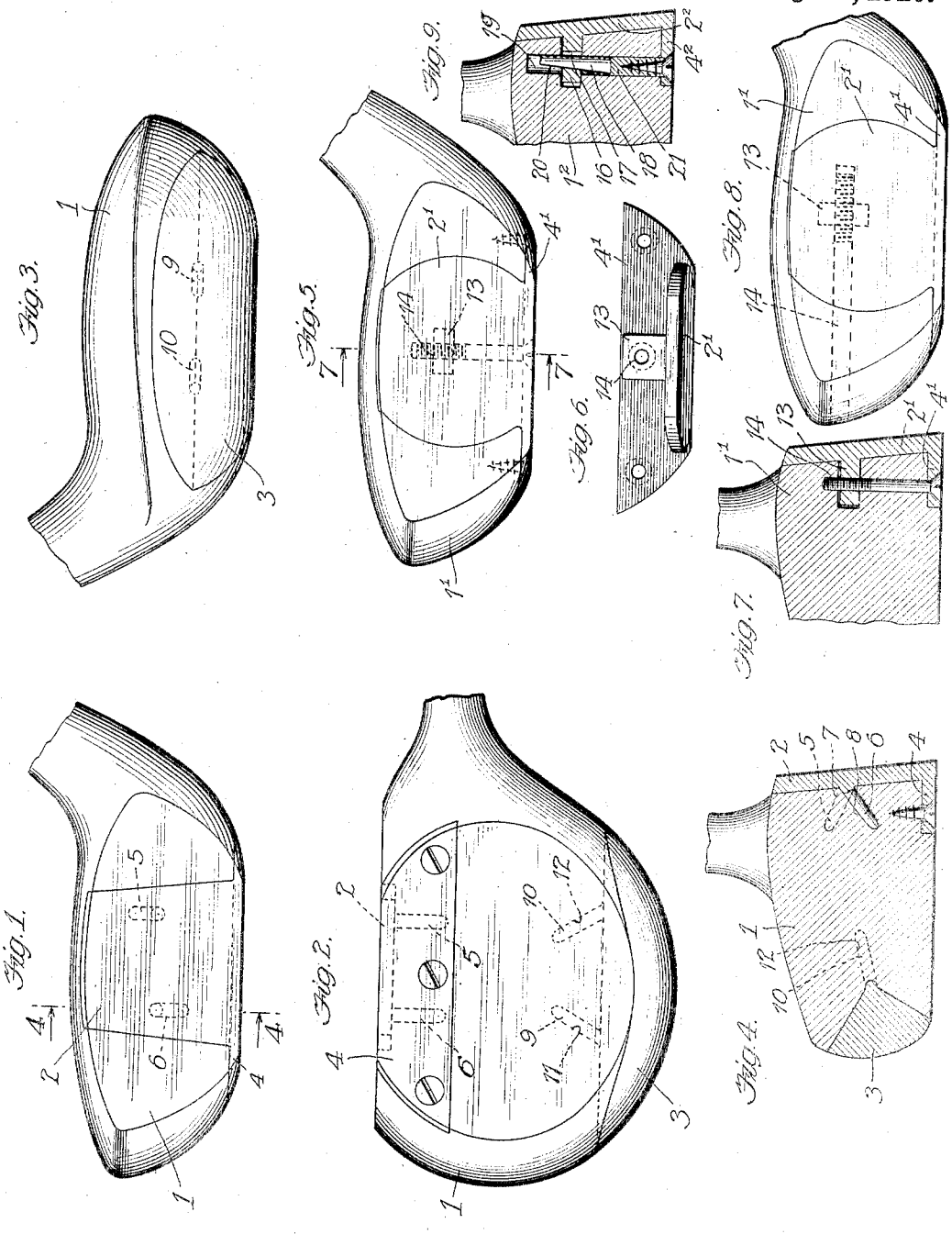
C. W. BOOTH.

GOLF CLUB.

APPLICATION FILED MAR. 27, 1919.

1,349,805.

Patented Aug. 17, 1920.



Witnesses
Martin H. Olsen.

Inventor
Charles W. Booth
By Chas. E. Wallace
Atty.

UNITED STATES PATENT OFFICE.

CHARLES W. BOOTH, OF CHICAGO, ILLINOIS.

GOLF-CLUB.

1,349,805. Specification of Letters Patent. Patented Aug. 17, 1920.

Application filed March 27, 1919. Serial No. 285,593.

To all whom it may concern:

Be it known that I, CHARLES W. BOOTH, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Golf-Clubs, of which the following is a specification.

This invention relates to golf clubs.

The object of the invention is to provide improved and simplified means for securing face plates and weights to wooden golf clubs without the use of screws, pins, dowels, or the like which extend through and are exposed at the outer sides thereof. To this end, my invention comprises the various features and details of construction hereinafter described and claimed.

In the accompanying drawings, in which my invention is fully illustrated,

Figure 1 is a face view of a club embodying my invention.

Fig. 2 is a bottom plan view thereof.

Fig. 3 is a rear view thereof.

Fig. 4 is a sectional view thereof taken on the line 4—4 of Fig. 1.

Fig. 5 is a face view of a club embodying my invention in modified form.

Fig. 6 is a detached top plan view of the metal fitting or attachment shown in Fig. 5.

Fig. 7 is a partial sectional view on the line 7—7 of Fig. 5.

Fig. 8 is a view similar to Fig. 5 illustrating a slight modification; and

Fig. 9 is a fragmentary sectional view illustrating a further modification of my invention.

Referring now particularly to Figs. 1 to 4 of the drawings, 1 designates the club head, 2 a plate secured in the striking face of the club, 3 the weight secured to the back of the club and 4 a sole plate secured to the sole of the club adjacent to the striking face thereof.

In accordance with my invention, the face plate 2 and weight 3 are preferably made of soft brass or other pliable and preferably substantially non-resilient metal, and are secured to the head 1 of the club in the following manner:—Formed on the plate 2 are prongs 5 and 6 which are adapted to engage holes 7 and 8 formed in the club head 1, and formed on the weight 3 are prongs 9 and 10 which are adapted to engage holes 11 and 12 formed in the club head, the holes 7 and 8 and 11 and 12 all extending at angles to the initial positions of the prongs 5 and 6 and 9 and 10 which engage said holes, respectively, and said prongs are of such size relative to the holes which they engage, respectively, that they will fit the same quite closely and said holes 7 and 8 and 11 and 12 also extending at angles to each other. With the described construction, it is obvious that when said prongs 5 and 6 and 9 and 10 are inserted into their respective holes and said face plate 2 and weight 3 are driven, drawn or pressed into close contact with their seats on the club head, said prongs will follow the holes which they respectively engage and will thus be bent into positions out of line with their initial positions and out of line with each other and will operate, in the manner of a dovetail, to firmly secure said face plate and weight to the club head.

Also, to strengthen the connection between said face plate and weight and the club head, and to fill up any slight spaces between said face plate and weight and their seats on the club head, cement or glue is preferably applied to all contacting surfaces on said face plate and weight and on the club head, including the prongs 5 and 6 and 9 and 10 which, when it hardens, will operate, in an obvious manner, to strengthen the engagement between said prongs and the holes in the club head and also to fill any intervening spaces between said face plate and weight and their seats on the club head, in the manner desired.

The sole plate 4 is preferably formed integral with the face plate 2 and is secured to the club head by screws or other suitable means.

As a modification of my invention, I contemplate securing the face plate and weight, either or both, to the club head by means of a lug or lugs formed thereon, respectively, which are adapted to be inserted into a hole or holes formed in the club head and which are adapted to be rigidly secured therein by means of a screw or screws secured in screw threaded engagement with a hole in said lug or each of said lugs, a suitable hole or holes being formed in the club head to receive said screw or screws, which either extend upward from the sole of the club or rearwardly from the toe of the club.

As in the preferred form of securing means shown in Figs. 1 to 4, the hole into which the attaching lug is inserted preferably extends at an angle to the initial position of said lug so that when said lug is inserted

into said hole and the face plate fully seated, said lug will be bent or sprung out of line with its original position, the relation being such that when the lug is in bent position, it will extend substantially at right angles to the securing screw, with the screw threaded hole therein in register with the hole formed in the club head for the screw, in which position said screw may be conveniently engaged with the hole in said lug. This modification is shown in Figs. 5 to 8 of the drawings, in which I have shown the same as applied for securing a face plate only to the club head.

Referring to said Figs. 5 to 8 of the drawings, 1′ designates the club head, 2′ the face plate, 4′ the sole plate formed integral with the face plate, 13 the attaching lug on the face plate formed in which is a screw threaded hole, and 14 a screw inserted through a hole formed in the club head into screw threaded engagement with the hole in said lug 13. As shown in Figs. 5, 6 and 7, said screw 14 is inserted through a hole formed in the bottom of the club while in Fig. 8 it is inserted through a hole formed in the toe of the club.

In both constructions, the hole formed in the club head to receive the lug 13 preferably extends at an angle relatively to the initial position of said lug so that when inserted into said hole and said face plate seated, said lug will be bent out of line with its initial position, thus increasing the strength of the engagement between said lug and the hole in the club head.

In all of the foregoing constructions, where the holes are formed at angles to the initial position of the securing lugs or prongs, the outer ends of said prongs and lugs are preferably rounded or beveled so that they will not gouge or cut into the wood, which would interfere with and might even prevent inserting said lugs and prongs into full designed engagement with the holes in the club head.

The sole plate 4′ will be secured to the bottom of the club by means of screws one of which may and preferably will be the screw 14.

As a further modification of my invention, I contemplate securing the face plate and the weight, either or both, to the club head by means of a lug or lugs thereon which are adapted to be inserted into a hole or holes formed in the club head and to be secured therein by means of wedges inserted endwise into a hole or holes formed in proper position in the club head into engagement with a hole or holes formed in said lug or lugs, the relation being such that the wedging surface will engage the inner end or ends of the hole or holes in said lug or lugs, and the side of said wedge or wedges opposite to said wedging surface or surfaces will rest in contact with the side of the hole in said club head throughout its length, the hole or holes in said lug or lugs being elongated sufficiently to provide for necessary movement of said lug or lugs under the influence of said wedge or wedges.

When said wedge is inserted into full engagement with the hole in said lug or lugs, its outer end will preferably be a considerable distance inside of the outer surface of the club, the opening thus formed being plugged up in any suitable manner as by a wooden dowel inserted therein.

Also, where there is a sole plate formed integral with the face plate, the opening for said wedge will be formed through said sole plate and in order that said club may present a neat and finished appearance, one of the screws for securing said sole plate in position will preferably be inserted through the hole formed therein to receive said wedge, into the dowel which closes the outer end of the hole formed in the club head to receive said wedge.

This modification is shown in Fig. 9 of the drawings, in which I have shown it as applied for securing the face plate only to the club head. Referring now to said Fig. 9, 1^2 designates the club head, 2^2 the face plate, 4^2 the bottom plate, 16 the attaching lug on the face plate which is inserted into a hole formed in the club head and is provided with an elongated hole 17 through which a wedge 18 which is fitted to and movable endwise in a hole 19 is inserted, the relation being such that when said wedge is forced inwardly, the wedging surface 20 thereon will engage the inner end of the elongated hole 17 in said lug.

With this construction, it is obvious that the face plate may be drawn into very strong firm engagement with its seat on the club head.

When the wedge 18 is in full engagement with the hole 19, the outer end of the hole in the club head in which said wedge is confined is closed by a suitable plug 21 and one of the screws for securing the sole plate to the club head is inserted through the opening formed in said sole plate to receive the wedge 18, said screw forming a neat finish for the bottom of the club and effectually concealing the construction.

As in the other constructions shown, the hole in the club head which receives the attaching lug 16 preferably extends at an angle to the initial position of said attaching lug, whereby, when said lug is inserted into said hole it will be bent out of alinement with its initial position.

I claim:—

1. A golf club comprising a club head, a metal attachment thereto, and means for securing said metal attachment to said club head, said securing means consisting of pro-

jections on said attachment which interlock with holes formed in said club head, said projections being initially out of line with the holes which they engage, respectively, substantially as described.

2. A golf club comprising a club head, a metal attachment thereto, and means for securing said metal attachment to said club head, said securing means consisting of projections on said attachment which engage holes formed in said club head, said holes being inclined to each other and to the initial positions of said projections, substantially as described.

3. A golf club comprising a club head, a metal attachment thereto, and means for securing said metal attachment to said club head, said securing means consisting of projections on said attachment which engage holes formed in said club head, said holes being inclined to each other, to the seat for said attachment on the club head and to said projections, substantially as described.

4. A golf club comprising a club head, a metal attachment thereto, and means for securing said metal attachment to said club head, said securing means consisting of a projection on said attachment which interlocks with a hole formed in said club head, said projection being initially out of line with the hole in said club head, and a key inserted through a hole formed in said projection, substantially as described.

5. A golf club comprising a club head, a metal attachment thereto, and means for securing said metal attachment to said club head, said securing means consisting of a projection on said attachment which interlocks with a hole formed in said club head, said projection being initially out of line with the hole in said club head, and a key inserted through an elongated hole formed in said projection, said key comprising a wedging surface adapted to engage the inner end of the hole in said projection, the relation being such that inserting said key will exert a wedging action on said projection to draw said face plate into intimate contact with its seat on the club head, substantially as described.

6. A golf club comprising a club head, a metal attachment thereto, and means for securing said metal attachment to said club head, said securing means consisting of a projection on said metal attachment which is inserted into a hole formed in said club head, said projection being provided with an elongated hole, and a key inserted through the hole in said projection, said key comprising a wedging surface adapted to engage the inner end of the hole in said projection, the relation being such that inserting said key will exert a wedging action on said projection to draw said face plate into intimate contact with its seat on the club head, substantially as described.

In testimony that I claim the foregoing as my invention, I affix my signature this 20th day of March, 1919.

CHARLES W. BOOTH.