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1,487,707

D. C. BENTON

GOLF CLUB

Filed Dec. 13, 1922

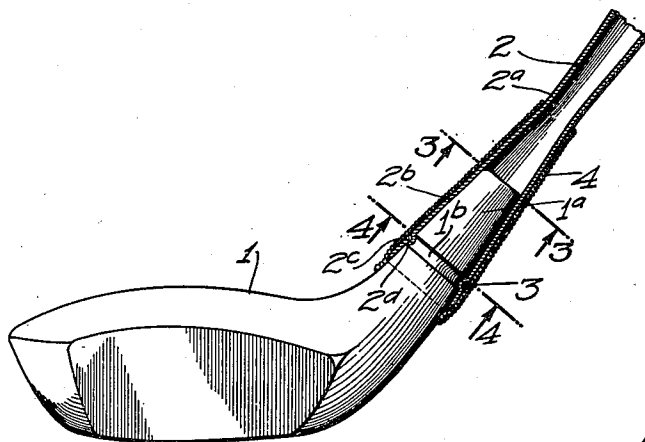


FIG. 2.

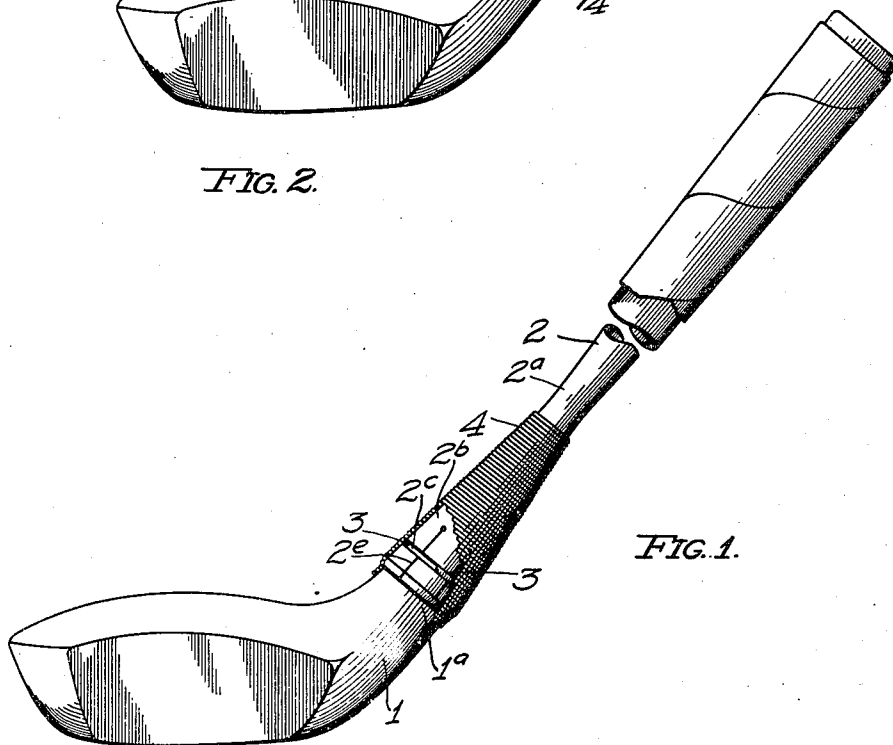


FIG. 1.

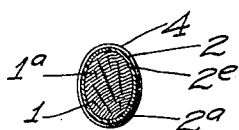


FIG. 4.



FIG. 3.

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DUDLEY C. BENTON, OF SAN DIEGO, CALIFORNIA.

GOLF CLUB.

Application filed December 13, 1922. Serial No. 606,619.

To all whom it may concern:

Be it known that I, DUDLEY C. BENTON, a citizen of the United States, residing at San Diego, in the county of San Diego and State of California, have invented certain new and useful Improvements in Golf Clubs, of which the following is a specification.

My invention relates to golf clubs, more particularly to means for securing the heads of golf clubs to the shafts thereof and the objects of my invention are: first, to provide a golf club, in which the head thereof, when broken or damaged can easily be removed and replaced by another head; second, to provide a golf club in which the head can easily be positioned and secured in the shaft without the exercise of a great deal of skill or the employment of special tools or equipment; third, to provide a golf club of this class in which the head is prevented from turning or twisting relatively to, or easily withdrawn from the shaft by reason of the particular construction of the joining ends of said members; fourth, to provide a novel means for securing the heads of golf clubs or the like to the shafts thereof and fifth, to provide a golf club which is very simple and economical of construction, durable, efficient and which will not readily deteriorate or get out of order.

With these and other objects in view as will appear hereinafter my invention consists of certain novel features of construction, combination and arrangement of parts and portions, as will be hereinafter described in detail, and particularly set forth in the appended claims, reference being had to the accompanying drawings and to the characters of reference thereon which form a part of this application, in which:

Figure 1 is a fragmentary side elevational view of a golf club shown as a driver, brassei or spoon with certain parts and portions broken away and in section to facilitate the illustration of the joining portions of the head with the shaft; Fig. 2 is a similar view of the head portion of the golf club showing the same secured to the shaft shown fragmentarily and in section through the middle thereof; Fig. 3 is a transverse sectional view taken through 3—3 of Fig. 2 and Fig. 4 is another transverse sectional view taken through 4—4 of Fig. 2.

Like characters of reference refer to similar parts and portions throughout the several views of the drawings.

The golf club head 1, shaft 2, wire ring 3 and the cord 4 constitute the principal parts and portions of my golf club.

The head and shaft members, 1 and 2 respectively of my golf club, are constructed for the most part like those of the conventional golf club and it is the main intent of this application to provide efficient, practical, durable and economical means for securing the said members together. The shaft 2 is preferably made from hollow steel tubing with a diminishing taper toward its normally lower end, and a short distance from said end is provided with an enlarging tapered portion toward said end. The cross-section of this enlarged portion emerges from a circle at 2^a into an ellipse at 2^b substantially as shown in Figs. 3 and 4 of the drawings. The upwardly extending securing lug portion 1^a of the head member 1 is shaped to conform with the tapered recess at the lower end of the shaft 2. An annular circular groove 2^c is provided in the outer surface near the end of the enlarged portion of the shaft to receive a wire 3 for contracting the end of the shaft, said groove being pressed in said shaft so as to form an annular obstruction or key 2^d in the hollow portion of the shaft which is adapted to engage with a similarly shaped groove portion 1^b in the lug 1^a of the head 1. The shaft is also provided with longitudinal slots 2^e extending from the end to a short distance beyond the annular groove thereof to provide sufficient resiliency for the lug 1^a of the member 1 to be inserted into the enlarged tapered recess of the shaft without obstruction by the inwardly extending portion 2^d. After the lug portion 1^a of the member 1 is inserted into the enlarged recess portion of the shaft, as described, a wire 3 is secured around the resilient portion of the shaft and positioned in the groove thereof, contracting and clamping the end of said shaft around the lug portion of the head 1. A cord 4 is then neatly wound around the lower end of the shaft at the joint thus formed to substantially conceal the same, which cord may be shellacked or otherwise covered to protect the same from weathering.

Though I have shown and described a particular construction, combination and arrangement of parts and portions, I do not wish to be limited to this particular construction, combination and arrangement, but desire to include in the scope of my in-

vention the construction, combination and arrangement substantially as set forth in the appended claims.

It is obvious from this construction as shown and described that there is provided a golf club in which the head thereof when broken or damaged may be easily removed and easily replaced by another; that there is provided a golf club in which the head can be easily positioned and secured in the shaft without expert skill or special tools; that there is provided a golf club in which the head thereof will not turn or be easily twisted relatively to or can be easily withdrawn from the handle or shaft; that there is provided novel means for securing the heads of golf clubs or the like to the shaft and that there is provided a golf club which is very simple and economical of construction, durable and which will not readily deteriorate or get out of order.

Having thus described my invention what I claim as new and desire to secure by Letters Patent, is:

1. A golf club including a shaft provided with a tapering recess in its normally lower end and an annular key on the inside of said recess, and a head member provided with a tapered lug conforming substantially with the tapered recess in said shaft and provided with an annular channel for the reception of said annular key.

2. A golf club including a shaft provided with a tapering recess in its normally lower end and an annular key on the inside of said recess, a head member provided with a tapered lug conforming substantially with the tapered recess in said shaft and provided with an annular channel for the reception of said annular key, and a contracting means clamping said shaft around the lug of said head.

3. A golf club including a shaft provided

with a tapering recess in one end and an annular key on the inside of said recess, a head member provided with a tapered lug conforming substantially with the tapered recess in said shaft and provided with an annular channel for the reception of said annular key, a contracting means clamping said shaft around the lug of said head and a protecting cover for the joint portions of said shaft and said head members.

4. A golf club, including a shaft having an inwardly tapered recess in its normally lower end and a key on the inside of the tapered recess of the shaft, said shaft being also split from its lower end to a distance beyond the key, and a head provided with an outwardly extending tapered lug portion conforming substantially with the tapered recess of said shaft and provided with a recess for the reception of said key.

5. A golf club, including a shaft having an inwardly tapered recess in its normally lower end and a key on the inside of the tapered recess of the shaft, said shaft being also split from its lower end to a distance beyond the key, a head provided with an outwardly extending tapered lug portion conforming substantially with the tapered recess of said shaft and provided with a recess for the reception of said key and a contracting means in connection with the split portion of said shaft for clamping the end thereof securely to the lug of said head.

6. A golf club, including a shaft with a hollow, split and key portion at one end, a head provided with a lug conforming therewith adapted to fit snugly therein and means for clamping said split and key portions on said lug.

In testimony whereof, I have hereunto set my hand at San Diego, California, this 8th day of December, 1922.

DUDLEY C. BENTON.