Nov. 24, 1925. 1,562,956

A. A. GUERNE

GOLF CLUB HEAD

Filed March 23, 1925

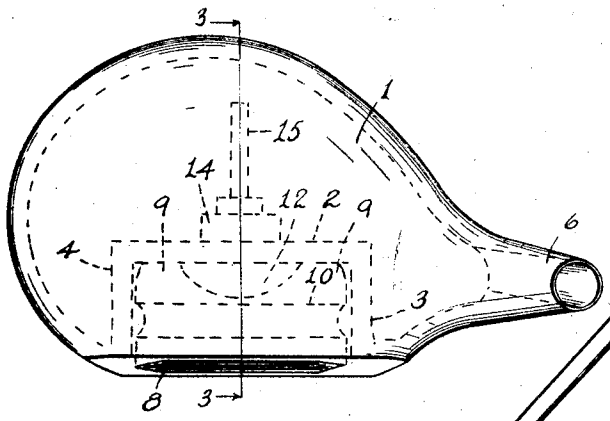

Fig. II.

Fig. I.

Fig. III.

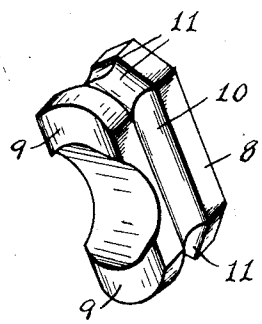

Fig. IV.

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ALFRED A. GUERNE, OF KALAMAZOO, MICHIGAN.

GOLF-CLUB HEAD.

Application filed March 23, 1925. Serial No. 17,589.

To all whom it may concern:

Be it known that I, ALFRED A. GUERNE, a citizen of the United States, residing at the city and county of Kalamazoo, State of Michigan, have invented certain new and useful Improvements in Gulf-Club Heads, of which the following is a specification.

This invention relates to improvements in golf club heads.

The main objects of this invention are:

First, to provide an improved golf club head which is mainly formed of metal.

Second, to provide in a golf club head an improved striking or impact face.

Objects pertaining to details and economies of my invention will definitely appear from the detailed description to follow.

I accomplish the objects of my invention by the devices and means described in the following specification. The invention is clearly defined and pointed out in the claims.

A structure embodying the features of my invention is clearly illustrated in the accompanying drawing forming a part of this application, in which:

Fig. I is a front elevation of a golf club embodying the features of my invention.

Fig. II is a plan view of a golf club head embodying my invention.

Fig. III is a transverse section on a line corresponding to line 3—3 of Figs. I and II.

Fig. IV is a rear perspective view of the impact member removed from the golf club head.

In the drawing similar numerals of reference indicate similar parts in all of the views.

My improved golf club head comprises an integral hollow metallic body 1 having integral partitions 2, 3 and 4 providing an impact member chamber 5. The head has an integral shank 6 for the shaft 7.

The impact member 8 is preferably formed of porcelain and has rearwardly projecting portions 9 at its ends seated directly against the wall 2 of the impact member chamber. The impact block 8 has side grooves 10 and end grooves 11, the projections 9 forming a recess 12 in the rear side of the block.

The impact member is set in vulcanized rubber 13 which embraces the top, bottom and ends thereof and fills the grooves 5, rubber of suitable composition being arranged upon the block, the block inserted and then the rubber vulcanized with the block in position, thus permanently securing the block in the chamber with its curved faces 9 in direct engagement with the walls of the chamber. Its sides and ends, however, are held in spaced relation to the walls by the vulcanized rubber or other suitable plastic material which is substantially non-elastic.

By curving the faces of the projections 9 the impact member can be accurately seated and its contact with the inner wall of the chamber is secured, notwithstanding such irregularities as might occur in castings.

The head may be weighted as desired, a weight 14 being shown as secured against the wall 2 by means of the screw 15 which is threaded into a hole 16 provided in the wall 2.

The head is provided with an opening 17 in its rear wall which is closed by the closure plug 18 threaded into the opening.

By thus arranging the counterbalancing weight it is properly positioned relative to the shank to secure the desired counterbalancing effect or result.

My improvements enable the economical production of golf clubs of a very superior quality. While I prefer to use porcelain the impact member may be formed of other materials with quite satisfactory results.

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

1. A golf club head comprising a hollow integral metallic body having integral partition walls providing an impact member chamber, and an impact member of porcelain having rearwardly projecting portions at the ends thereof with curved faces seated directly upon the inner wall of said chamber, said impact member having external grooves in its sides and ends and being set in vulcanized rubber which surrounds the sides and ends thereof filling said grooves and supporting the impact member with its sides and ends out of contact with the walls of the chamber.

2. A golf club head comprising a hollow metallic body having integral partition walls providing an impact member chamber, and an impact member of porcelain seated directly upon the inner wall of said chamber, said impact member having external grooves in its sides and ends and being set in vulcanized rubber which surrounds the sides and ends

thereof filling said grooves and supporting the impact member with its sides and ends out of contact with the walls of the chamber.

3. A golf club comprising a hollow metallic body having integral partition walls providing an impact member chamber, and an impact member of porcelain seated directly upon the inner wall of said chamber, said impact member being set in vulcanized rubber which surrounds the sides and ends thereof supporting the impact member with its sides and ends out of contact with the walls of the chamber.

4. A golf club head comprising a hollow metallic body having integral partition walls providing an impact member chamber, an impact member of non-resilient material seated directly upon the inner wall of said chamber and set in a plastic which surrounds the sides and ends thereof supporting its sides and ends out of contact with the walls of the chamber, a weight, and an attaching screw therefor threaded into the inner wall of said chamber, the rear wall of said body having an opening alined with said screw and provided with a threaded closure plug.

5. A golf club head comprising a hollow metallic body having integral partition walls providing an impact member chamber, an impact member of non-resilient material seated directly upon the inner wall of said chamber, said impact member being set in vulcanized rubber which surrounds the sides and ends thereof and supports it with its sides and ends out of contact with the walls of the chamber, a weight, and means for clamping said weight upon the inner wall of said impact member chamber.

6. A golf club head comprising a hollow metallic body having integral partition walls providing an impact member chamber, and an impact member of non-resilient material seated directly upon the inner wall of said chamber, said impact member being set in vulcanized rubber which surrounds the sides and ends thereof and supports it with its sides and ends out of contact with the walls of the chamber.

7. A golf club head comprising a hollow metallic body having an impact member chamber in the face thereof, and an impact member of porcelain seated upon the rear wall of said chamber, said impact member being set and retained in said chamber by a substantially non-resilient plastic.

8. A golf club head comprising a hollow metallic body having an impact member chamber in the face thereof, and an impact member of porcelain set and retained in said chamber by a substantially non-resilient plastic.

9. A golf club head comprising a hollow metallic body having an impact member chamber in the face thereof, an impact member of porcelain set and retained in said chamber by a substantially non-resilient plastic, and a weight clamped upon the inner wall of said impact member chamber.

10. A golf club head comprising a hollow metallic body having an integral partition wall providing an impact member chamber, and an impact member of non-resilient material set and retained in said chamber by a substantially non-resilient plastic.

In witness whereof I have hereunto set my hand and seal.

ALFRED A. GUERNE. [L. S.]