A. A. KRAEUTER.

HEAD FOR GOLF CLUBS.

APPLICATION FILED MAY 6, 1920.

1,413,854. Patented Apr. 25, 1922.

Fig. 1

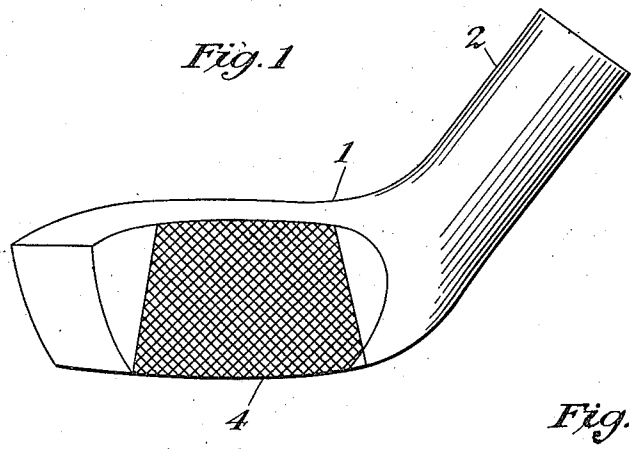


Fig. 3

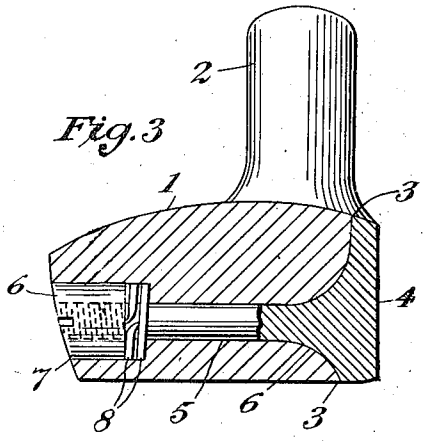


Fig. 2

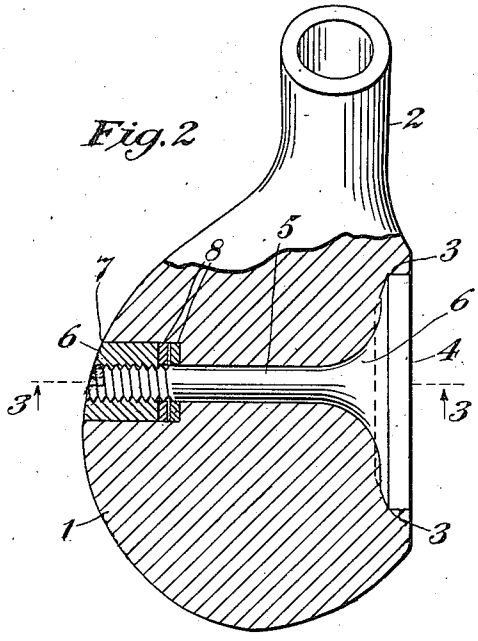
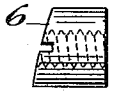


Fig. 4



Inventor
Arthur A. Kraeuter.
By Wm S Attorney
Arthur Wilson.

UNITED STATES PATENT OFFICE.

ARTHUR A. KRAEUTER, OF SOUTH ORANGE, NEW JERSEY.

HEAD FOR GOLF CLUBS.

1,413,854. Specification of Letters Patent. Patented Apr. 25, 1922.

Application filed May 6, 1920. Serial No. 379,223.

To all whom it may concern:

Be it known that I, ARTHUR A. KRAEUTER, a citizen of the United States, and resident of South Orange, Essex County, New Jersey, have invented certain new and useful Improvements in Heads for Golf Clubs, of which the following is a specification.

My invention relates to heads for golf clubs, particularly to wooden heads which are provided with a reinforcing metal face plate; and my improvements are directed to means for increasing the strength and durability of the reinforced head, and to so forming and securing the reinforcing plate as to avoid danger of its breaking away or being separated from the head.

In the drawings Fig. 1 is a side view of my improved golf club head; Fig. 2 is a plan view, partly in section, of the same; Fig. 3 is a cross sectional view on the line 3—3 of Fig. 2, looking up; and Fig. 4 is a side view of the securing nut.

Similar letters of reference designate similar parts in all the figures.

The head 1 is provided with a shank 2 into which the handle of the club may be inserted in the usual manner; and the head is also recessed on its striking face, as at 3, to accommodate a reinforcing plate 4 which is adapted to fill the recess and to be flush with the striking face of the club.

The plate 4 is provided with a shank 5, which is mushroomed out or expanded at 6, where it merges with the face plate so as to brace and support the plate against lateral distortion in its relation to the shank, and to prevent its being cracked or broken away from the shank by the force of the blows of the club against the ball when in play.

The recess 3 is formed to accommodate this mushroomed or enlarged end of the shank snugly and evenly.

The shank passes through the head, and is secured at the opposite side by a retaining nut 6 fitting in a socket 7 in the head of the club, and, preferably, held against rotation by suitable means, as lock washers 8, 8, the size and weight of the nut 6, washers and shank being preferably so proportioned relative to the plate 4 as to substantially maintain the balance of the head, and not to weight it down unduly at either the front or back.

The elasticity of the lock washers 8, 8, compensates for any expansion or shrinkage of the wood of the head when it becomes wet or dries out, thus keeping the metal elements always tight and snug. While the nut 6 can be set up, when and if desired, to adjust the fittings to any permanent shrinkage of the wood.

When the parts are so formed and assembled, the reinforced head acts as a unit, the wood evenly and firmly supporting the face plate with the mushroomed end of the shank, while the securing nut holds the shank firmly and so as to permit of being tightened up in case any looseness of the plate should develop in the use of the club.

It is evident that details of construction may be varied, by the use of mechanical equivalents or the like, without departing from the scope of my invention as claimed.

Having thus described my invention what I claim and desire to secure by Letters Patent of the United States, is:—

The combination, with a wooden golf club head, provided with a recess in its striking face having a flattened bottom merging into a funnel-shaped chamber extending from said recess to a transverse shank channel disposed below the medial line of the head and leading to an enlarged nut socket in the back of the head, of a metallic face plate provided with an integral conical extension tapering to a shank disposed below the central horizontal plane of the face plate and having a threaded, free end, elastic take-up means, and cooperating securing means.

ARTHUR A. KRAEUTER.

Witness:

FRED C. GRUEN.