No. 727,819. PATENTED MAY 12, 1903.

G. W. MATTERN.

GOLF CLUB.

APPLICATION FILED MAR. 21, 1903.

NO MODEL.

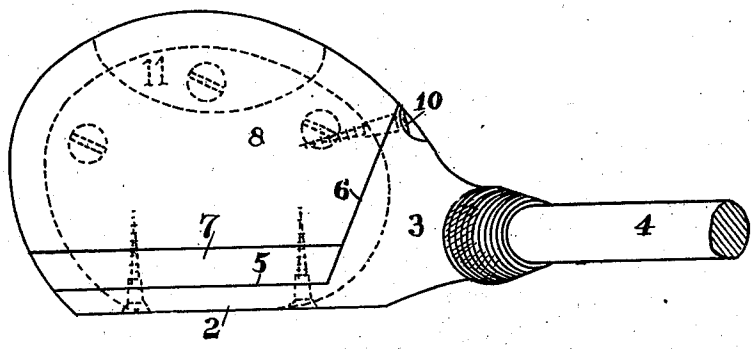


Fig. 1

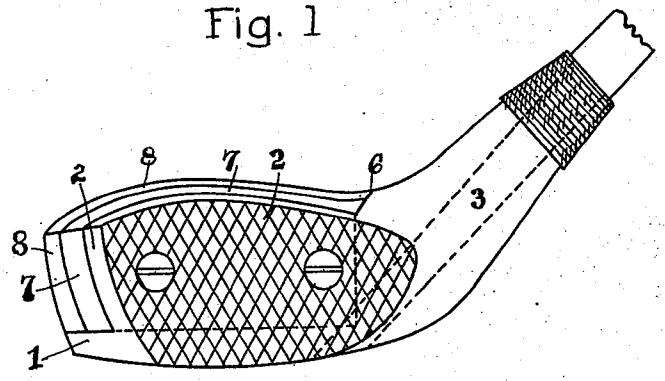


Fig. 2.

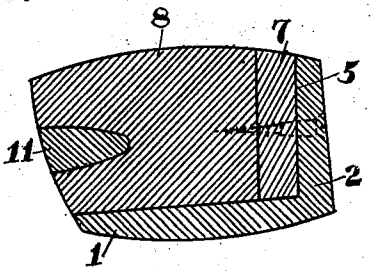


Fig. 3.

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THE HARRIS PETEGR CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 727,819. Patented May 12, 1903.

UNITED STATES PATENT OFFICE.

GEORGE W. MATTERN, OF DAYTON, OHIO, ASSIGNOR TO THE CRAWFORD McGREGOR AND CANBY CO., OF DAYTON, OHIO.

GOLF-CLUB.

SPECIFICATION forming part of Letters Patent No. 727,819, dated May 12, 1903.

Application filed March 21, 1903. Serial No. 148,961. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. MATTERN, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Golf-Clubs; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to the construction of golf-clubs; and the improvements contained in said invention relate to the head of the club, and consist of a metallic frame or casing which incloses the bottom of the head and the striking-face of the head and serves to protect such parts of the head which are subjected to wear in the continual usage of the club. In other words, the face or striking-surface of the head and the sole and the neck portions are composed of one integral metallic substance which contains the proper amount of tensile strength and the proper elasticity to act in perfect harmony with all other parts of the club. The striking surface or face of the head is backed up or reinforced by a material of a quick-acting or springy nature, behind which is a hard-wood block with the usual lead insertion opposite to the point of impact. The elastic material and the block are securely united to the top surface of the metallic sole and to the rear side of the metallic striking-face with a suitable number of screws, which are inserted from the bottom of the metallic sole and through the metallic face. The block is also provided with a proper retaining-screw, which is inserted through the neck of the head near the rear or lead side.

Preceding a more detailed description of the invention, reference is made to the accompanying drawings, of which—

Figure 1 is a top view of a golf-club made in accordance with my invention. Fig. 2 is an elevation of the striking face or surface. Fig. 3 is a transverse section through the head.

In a detail description of the invention similar reference characters indicate corresponding parts.

The metallic frame or casing constituting a portion of the head consists of one integral piece of material having a desirable amount of elasticity and a proper specific gravity. When constructed, the said casing consists of the sole or ground portion 1, which lies at the bottom of the head, and the upright portion 2, which forms the face or striking-surface, said surface being suitably roughened or corrugated to insure a proper impact with the ball and the neck 3, which forms the rear abutment of the block 8 and elastic strip 7. The portions 1 and 2 are united with the neck 3, and the latter is provided with a suitable socket for the insertion of the shaft 4, which is constructed from a suitable quality of hickory.

The frame or casing when constructed as above specified presents two inner upright walls 5 and 6, the former providing an abutment for the material 7 and the latter forming a suitably-tapering abutment, as shown in Fig. 1, for the rear end of the material 7 and for the block 8. The part 7 may be of any suitable material which possesses strength as well as a desirable amount of elasticity—such, for example, as ebonite, vulcanite, gutta-percha, and a variety of other materials having such nature and possessing a proper specific lightness and elasticity. This substance 7 is interposed between the block 8 and the inner surface of the striking-face 2 and is, together with the block 8, rigidly united to said striking-face 2 by a suitable number of screws, as shown in the drawings. The heads of the screws are countersunk and are covered with metal, so that when the article is finished the heads of these screws will be invisible, although they appear conspicuously in the drawings.

The block 8 is constructed, as usual, of a suitable kind of wood, and its rearward surface is given the proper angle to match with the surface 6 of the neck 3, at which point it is made secure to said neck by means of a retaining-screw 10, that passes through said neck 3 adjacent to the rear side of the head. The head of this screw 10 is also invisible in the finished club. The rear side of the block

8 is provided with the usual insertion 11, consisting, preferably, of lead. The block 8 is secured to the sole 1 adjacent to the rear side of the head by means of a suitable number of screws. (Shown in dotted lines in Fig. 1.) These screws pass through the sole 1 and enter the block 8 a suitable distance.

Having described my invention, I claim—

1. In a golf-club, a head consisting of a metallic casing forming the sole, the striking-face, and the neck of said head, a head-block united to said casing at the sole, the neck, and the striking-face portions of said casing, and a strip of elastic material interposed between said block and said striking-face, substantially as set forth.

2. In a golf-club, a head consisting of an integral metallic casing forming the sole, the striking-face and the neck, a block united to said metallic casing at the neck and at the sole, and a strip of material having the requisite elasticity, the same being arranged in the rear of the striking-face and suitably united thereto, substantially as set forth.

3. In a golf-club, a head consisting of a metallic casing, a block mounted in said metallic casing and having three sides thereof inclosed by said casing the said block being united to the said three sides of the casing, a strip of elastic material interposed between said block and the striking-face of the casing, the said strip being secured to the block and to the casing, substantially as set forth.

4. In a golf-club, a metal case constituting the striking-surface, the sole, and the neck of the head, a block secured to said case at the striking-face, the sole, and the neck portions thereof, and a strip of elastic material interposed between the inner surface of the striking-face and the straight side of the block, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE W. MATTERN.

Witnesses:
R. J. McCARTY,
H. H. HABNER.