

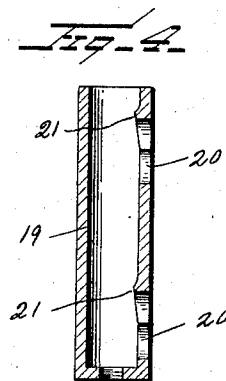
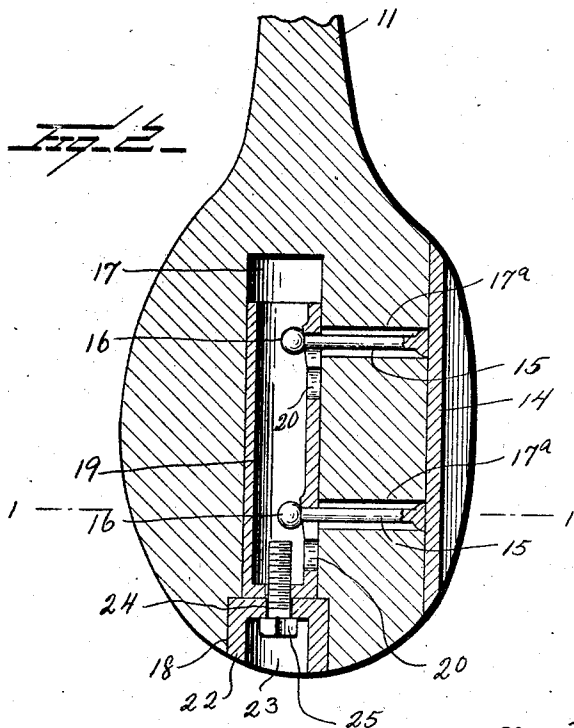
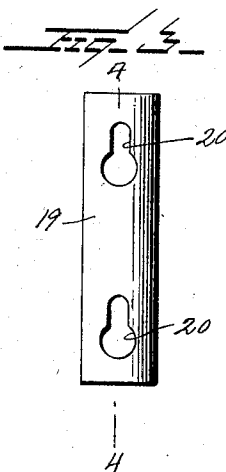
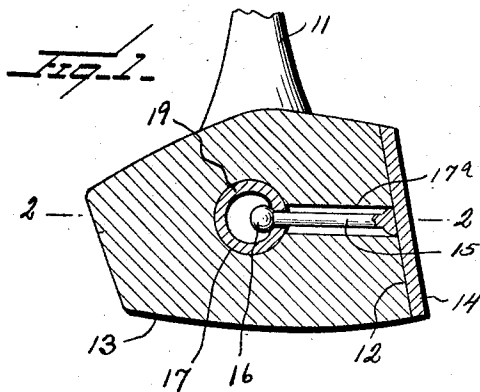
Oct. 27, 1925.

A. W. MILLER

1,558,703

GOLF CLUB

Filed June 10, 1924



Inventor

A.W. Miller

By *Watson E. Coleman*
Attorney

UNITED STATES PATENT OFFICE.

ARNOLD W. MILLER, OF LIMA, OHIO.

GOLF CLUB.

Application filed June 10, 1924. Serial No. 719,179.

To all whom it may concern:

Be it known that I, ARNOLD W. MILLER, a citizen of the United States, residing at Lima, in the county of Allen and State of Ohio, have invented certain new and useful Improvements in Golf Clubs, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to golf clubs, and particularly to the means for connecting the metal facing plate to the face of the club head.

A further object is to provide a means for fastening the metal facing plate to the head face which will permit the ready attachment of the face plate whenever it is desired to do so but which will securely hold the face plate in place while the club is in use, this construction being such that it will not affect in any way the use of the club or change its balance.

My invention is illustrated in the accompanying drawing, wherein:—

Figure 1 is a vertical section through the head of a golf club on the line 1—1 of Figure 2;

Figure 2 is a horizontal section through the club head;

Figure 3 is an elevation of the locking sleeve or bushing;

Figure 4 is a sectional view of the locking sleeve or bushing on the line 4—4 of Figure 3.

Referring to these drawings, 10 designates the head of a golf club such, for instance, as a brassie or driver, this head 10 being provided with the usual handle, the shank of which is designated 11, the head 10 being formed with a downwardly and outwardly inclined face 12, the under face 13 of the head being slightly rounded, as is usual.

For the purpose of connecting the face plate 14 to the head of the club, I provide this face plate 14, which may be made of any suitable metal, with inwardly projecting studs 15, these studs having enlarged heads 16 at their inner ends. The body of the club is formed with a longitudinally extending bore 17 which is parallel to the face 12 of the club and which opens upon the end of the club head, this bore 17 being connected to the face of the club by passages 17^a, the outer end of the bore being counterbored or slightly enlarged, as at 18.

Disposed within this bore 17 is a tubular bushing 19 or locking member which has a length less than that of the bore and which is longitudinally shiftable within the bore. One face of this locking member confronting the plate 14 is provided with a plurality of keyhole slots 20 within which the heads of the studs 15 are adapted to pass. The large portions of the keyhole slots 20 are of sufficient diameter to receive the heads of the studs, while the small portions of the keyhole slots are smaller in width than the diameter of the heads so that when this locking member 19 is shifted in one direction, these keyhole slots will engage the studs 15 and lock the plate in place and when the locking member is shifted in the other direction the large portions of the keyhole slots will be brought opposite the heads and the plate 14 may then be withdrawn.

Preferably the interior face of that part of the member 19 which surrounds the narrow portion of the keyhole slot will be thickened, as at 21, this thickened portion being beveled toward the narrow end of the keyhole slot so that when the locking member is pulled in one direction, the narrow portion of the slot will embrace the neck of the stud 15 and this beveled or wedge-shaped portion 21 will engage on each side of the head of the stud 15 and draw the head inward and thus draw the plate 14 into place against the flat side of the club.

For the purpose of drawing the locking member 19 into its locking position or shifting it from its locking position, I provide in the counterbore 18 a bushing or lining member 22 having a central bore 23 with a relatively narrow opening 24 leading from said bore to the inner face of the bushing. The outer face of the bushing is inclined to fit the end of the club. This bushing is put in place within the counterbore so as to form an abutment for the head of the screw 25, which screw passes through the bore 24 and into and has screw-threaded engagement with the closed end of the locking member 19.

Thus it will be seen that by turning up this screw, the locking member may be drawn longitudinally so as to lock the pins 15 and prevent any detachment or displacement of the plate 14, and that by turning the screw 25 in the reverse direction the

locking member will be shifted longitudinally to release the stud 15 and permit the removal of the plate.

I do not wish to be limited to any particular material for the various parts illustrated, nor to the exact construction, as it is obvious that these might be varied in many ways without departing from the spirit of the invention.

10 I claim:—

1. In a golf club having a head, a face plate for the head having inwardly extending members, and a locking member disposed within the club and movable longitudinally therethrough and adapted, when shifted in one direction, to lockingly engage said inwardly directed members and, when shifted in the other direction, to release said inwardly directed members.

20 2. In a golf club, a face plate therefor having inwardly projecting studs, the club having a longitudinally extending bore with passages extending from the bore outward to the face of the club, the face plate having inwardly projecting, headed studs adapted to be extended through said passages and into said bore, and a locking member disposed within the bore and longitudinally shiftable to engage the headed studs and lock the plate against the face of the club or unlock the plate to permit its removal.

3. In a golf club, a face plate therefor having inwardly projecting studs, the club having a longitudinally extending bore with passages extending from the bore outward to the face of the club, the face plate having inwardly projecting, headed studs adapted to be extended through said passages and into said bore, locking means disposed within the bore in the head comprising a hollow member longitudinally shiftable within the head and having keyhole slots through which the headed studs are adapted to project, and manually operable means disposed in one end of the bore whereby the hollow member may be longitudinally shifted and held in its shifted position.

4. In a golf club, a face plate therefor having inwardly projecting studs, the club having a longitudinally extending bore with passages extending from the bore outward to the face of the club, the face plate hav-

ing inwardly projecting headed studs adapted to be extended through said passages and into said bore, locking means disposed within the bore in the head comprising a hollow member longitudinally shiftable within the head and having keyhole slots through which the headed studs are adapted to project, a bushing disposed in the outer end of the bore and having a central opening, and a screw passing through the central opening and having screw-threaded engagement with one end of the hollow member whereby the hollow member may be longitudinally shifted.

5. A golf club having therein a longitudinally extending bore, the outer end of the bore being enlarged, there being passages extending from the bore outward to the face of the club, a face plate having inwardly extending headed studs insertible through said passages, means for locking the face plate in place comprising a tubular member disposed within said bore and formed on one face with keyhole slots, the side walls of the narrow portions of the keyhole slots being wedge-shaped to engage said heads and draw the plate inward as the locking member is shifted longitudinally, means for shifting the locking member comprising a bushing disposed within the enlarged end of the bore and having a central aperture, and a screw passing through the central aperture and having screw-threaded engagement with one end of the hollow member.

6. In a golf club, a face plate having inwardly directed studs, the golf club having a longitudinally extending bore, and passages leading from the chamber to that face of the club against which the face plate is disposed and the studs extending through said passages into said bore, a longitudinally shiftable locking member disposed within the bore and in one position lockingly engaging the studs and in another position permitting the release of the studs from their engagement, and means disposed adjacent one end of the club whereby the locking member may be shifted longitudinally.

In testimony whereof I hereunto affix my signature.

ARNOLD W. MILLER.