

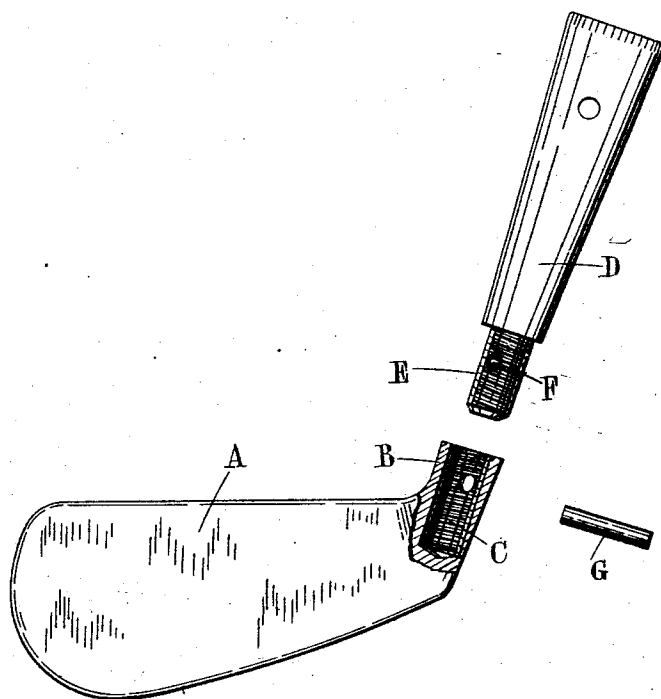
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H. WILLIAMSON

GOLF CLUB

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UNITED STATES PATENT OFFICE.

HUGH WILLIAMSON, OF BOURNEMOUTH, ENGLAND.

GOLF CLUB.

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To all whom it may concern:

Be it known that I, HUGH WILLIAMSON, a subject of the King of Great Britain, residing at 6 Linwood Road, Bournemouth, in the county of Hampshire, England, have invented certain new and useful Improvements in Golf Clubs, of which the following is a specification.

This invention relates to golf clubs, especially to those known as iron clubs, and it has for its object to improve the balance whereby to render them more accurate in play.

So-called iron clubs comprise a head forged in mild steel, consisting of a blade and a tubular shank into which the wooden shaft of the club is fitted.

To counter-balance the weight of said tubular shank the blade is increased in thickness or swelled at certain parts, but there is a limit to which this method of balancing can be carried because a club head must conform as nearly as possible to conventional design or it is liable to be regarded as "freakish" and will not find favour with players of the game. In consequence the amount by which the weight of the shank can be balanced by designing the head is, generally speaking, very small, and is insufficient to enable the weight of the head of the club to be concentrated in the ideal place, viz, the vertical centre line of the blade.

This invention is designed to secure the desired concentration of the weight of the head and achieves its object by constructing the shank of the head of a lighter metal or material than that of which the blade is composed.

Thus, for example, the shank may be composed of a suitable alloy of aluminium, which possesses the required lightness and strength, and may be attached to the blade by being screwed thereinto, or otherwise suitably; and in order to compensate for the reduced weight of the shank the blade may be thickened slightly at the sole, or may be formed at the back with an integral rib, which thickening can be so regulated as to locate the centre of gravity, of the head as a whole, in the vertical centre line of the blade.

The wooden shaft may be secured in the shank in the same manner as now obtains in the manufacture of iron clubs, or otherwise suitably.

One form of the invention is illustrated by way of example in the accompanying drawing which shows the head of an iron club in front elevation, partly in section, the parts composing the head being separated.

The blade A is, as usual, of forged mild steel and is formed with a short neck B which is bored or drilled out and screw threaded internally at C. D is a tubular tapered shank composed of a suitable alloy of aluminium which shank is formed solid at its lower end and has projecting therefrom an integral spigot E screw threaded correspondingly to the bore of the neck B into which said spigot is screwed.

When these parts have been thus assembled a hole F is drilled transversely through the neck B and spigot E into which hole a pin G is driven and its ends are rivetted over.

The wood shaft of the club, not shown, may be secured in the tubular shank D in the usual or any other convenient manner.

Instead of being screw threaded as shown the bore of the neck B and the spigot E may be tapered and the spigot may be a driving fit therein and may be secured by a transverse pin or a set screw, or otherwise suitably.

The invention is applicable to any of the various forms of iron clubs.

What I claim is:—

1. A golf club head comprising, a blade of forged mild steel, a short neck integral with said blade, said short neck being bored and screw threaded, a shank composed of a suitable alloy of aluminium, said shank being tubular, a spigot formed on said shank, said spigot being screwthreaded and being screwed into said screwthreaded bore of said neck, and means to secure said parts in assembled position.

2. A golf club head comprising a blade of forged mild steel, a short neck integral with said blade, said short neck being bored and screwthreaded, a tubular shank com-

posed of a suitable alloy of aluminium, a spigot formed solid with said tubular shank, said spigot being screwthreaded and being screwed into said screwthreaded bore of said neck, a passage formed transversely of said spigot, diametrically opposite apertures formed in said neck, and a cross-pin fitting into said passage and said apertures when said parts are in assembled relationship. 10

In testimony whereof I affix my signature.

HUGH WILLIAMSON.