June 17, 1930. A. C. LINK 1,764,800

SHAFT FOR GOLF CLUBS AND THE LIKE

Filed May 1, 1929

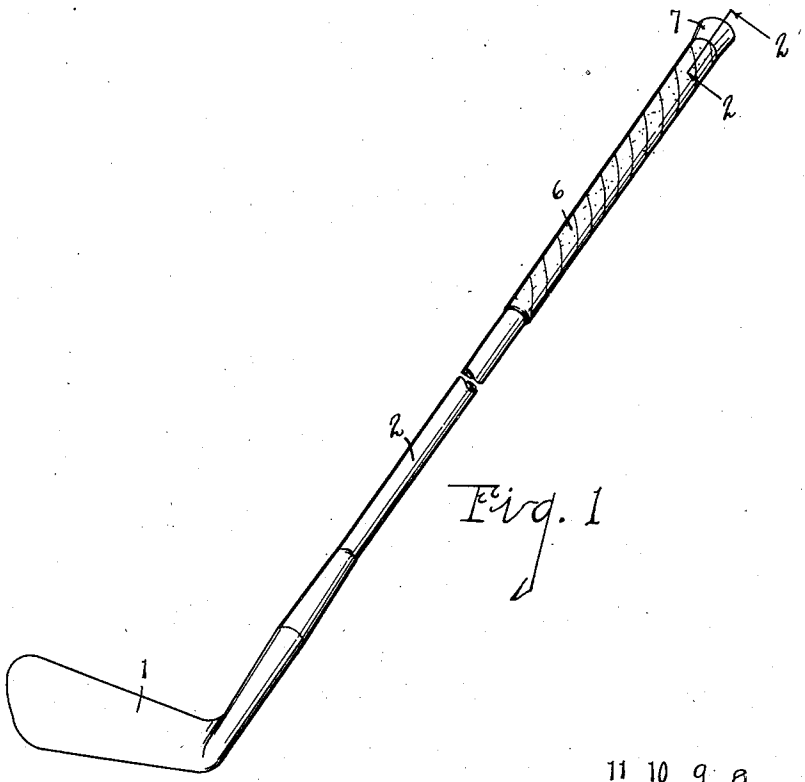


Fig. 1

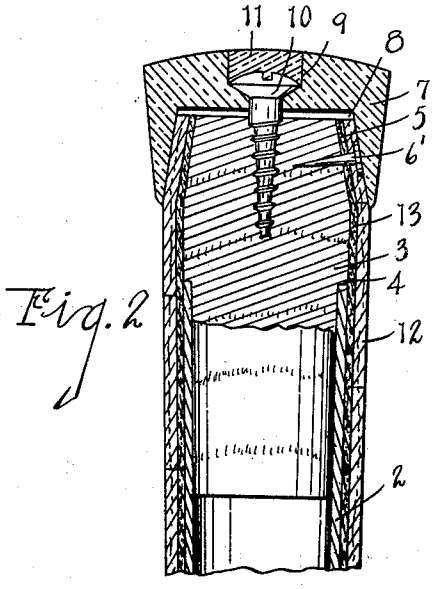


Fig. 2

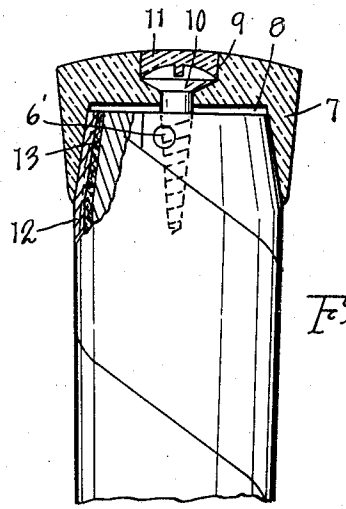


Fig. 3

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UNITED STATES PATENT OFFICE

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SHAFT FOR GOLF CLUBS AND THE LIKE

Application filed May 1, 1929. Serial No. 359,477.

The main object of this invention is to provide an effective means for finishing the end of a metal shaft and securing the grip wrapping or covering thereto without the necessity for employing wrapping threads.

A further object is to provide a means for securing the grip covering to a golf club shaft which has an effective end piece for the grip.

Objects pertaining to details and economies of my invention will definitely appear from the description to follow. The invention is defined in the claims.

A preferred embodiment of the invention is clearly illustrated in the accompanying drawing, in which:

Fig. 1 is a perspective view of a golf club shaft embodying the features of my invention, the shaft being partially broken away.

Fig. 2 is an enlarged detail section on line 2—2 of Fig. 1.

Fig. 3 is a fragmentary view showing the adaptation of my improvements to a wooden shaft.

In the embodiment illustrated the club head 1 is of metal, the shaft 2 being a tubular metal shaft. At the outer end of this shaft I insert a tip 3 preferably formed of wood and shouldered at 4 to overhang the end of the shaft. This tip is secured in the shaft by glue or other suitable means. The outer end portion 5 of the grip is outwardly tapered.

The grip covering 6 is in the form of a strip of leather or other suitable material spirally wound upon the shaft and on its tip, the windings being continued on to the tapered portion of the tip or terminating thereon and being secured by means of a radially disposed nail 6′ through the covering.

The cover is further secured and a finish provided for the outer end of the grip by the cap 7 which has an inwardly tapered socket 8 which receives the tapered portion of the tip and its covering, the cap embracing or covering the nail 6′. This cap has a countersunk hole 9 therein which receives the screw 10 threaded longitudinally into the tip and whereby the cap is firmly clamped upon the tip and the end of the covering. This cap is preferably tapered externally. The countersunk portion of the hole is of substantial depth to receive a filler 11 which embeds and covers the head of the screw.

The filling is preferably of plastic material which hardens and is adapted to be finished flush with the end surface of the cap.

In practice I have found caps formed of pyroxylin very satisfactory in that they may be colored as desired to provide an attractive finish, are not affected by moisture and present a smooth surface.

In the modification shown in Fig. 3 the shaft 12 is formed of wood, the tapered portion 13 being formed directly thereon. The shaft is otherwise substantially as described in connection with Fig. 2.

While my improvements are especially valuable when embodied in steel shafts, they are very desirable when used on wooden shafts.

I have not attempted to illustrate or describe various adaptations or embodiments which I contemplate as it is believed that this disclosure will enable those skilled in the art to embody or adapt my improvements as may be desired.

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

1. A shaft for golf clubs and the like comprising a tubular shaft, a shouldered tip of wood inserted in the end of said shaft to project substantially therefrom, the outer end of said tip being outwardly tapered, a grip covering wrapped upon said shaft with the wrappings extended upon said tip, a cap having an inwardly tapered socket for the tapered portion of said tip and the covering wrapped thereon, said cap having a central hole therein, a screw threaded into the end of said tip through said hole in said cap to clamp the cap upon the covering wrapped upon the tapered portion of said tip.

2. A shaft for golf clubs and the like comprising a tubular metal shaft, a tip of wood inserted in the end of said shaft to project substantially therefrom, the outer end of said tip being outwardly tapered, a grip covering for said shaft embracing and secured to the tapered portion of said tip, a cap having

an inwardly tapered socket for the tapered portion of said tip and the covering wrapped thereon, said cap having a hole therein, and a screw threaded into the end of said tip through said hole in said cap to clamp the cap upon the covering wrapped upon the tapered portion of said tip.

3. A shaft for golf clubs having an outwardly and uniformly tapered portion at its tip extending to the end thereof, a grip covering wrapped upon said shaft with a portion of the covering embracing the said tapered tip portion, a cap having an inwardly tapered socket of uniform taper from end to end of the socket, embracing the tapered tip portion of the shaft and its said wrapping, said cap having a central hole in the end thereof, and a screw threaded into the end of said shaft through said hole to clamp the cap upon the covering wrapped upon the tapered portion of said tip.

In witness whereof I have hereunto set my hand.

ALBERT C. LINK.