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(54) Title: GOLF CLUB WOOD HEAD WITH OPTIMUM AERODYNAMIC STRUCTURE

(57) Abstract

The present invention consists of an improved golf club head design for a golf club wherein in one preferred embodiment the club head is preferably molded from a clear acrylic material or polymeric material or a high tech metal alloy wherein a plurality of elongated elliptical or v-shaped gently flaring grooves or indentations extend normal to the club head striking surface and are embedded in at least the crown and sole of the club head. These grooves may be present in the toe surface in larger club heads, such as drivers. These grooves initiate from just behind the striking face or leading edge and extend rearwardly toward the back of the club wood head. The grooves create a corresponding plurality of vortices during the golf swing which redirect and accelerate air flow rearwardly away from the back of the club head, reducing wind resistance and eliminating induced drag of the moving club head, thereby increasing thrust which in turn increases the overall distance a golf is capable of traveling during a given shot. In one preferred embodiment of the invention, a metal housing or shell is provided with an acrylic insert to achieve increased performance and durability.