A shock-absorbing golf club head includes a front recess in the striking face of a golf club head, extending to the top and the rear portion of the striking face and communicating with a rear recess by means of plural through holes. The front recess is mounted on with a metal face plate having circumferential dented edge to be fixedly engaged with the striking face synchronously when shock-absorbing material is formed into shape and affixed to both front and rear recess so as to form a double-deck shock-absorbing layer to acquire an effect of shock-absorbing, shock-lessening and stability of controlling golf balls.
SHOCK-ABSORBING GOLF-CLUB HEAD

BACKGROUND OF THE INVENTION

[0001] This invention relates to a shock-absorbing golf-club head, particularly to one possible to effectively absorb wrenching and shock force caused by bailing to achieve an effectiveness of shock absorbing, shock lessening and stability of ball controlling.

[0002] Generally, when a golfer swings a golf club in striking a ball, the striking face of the golf club will give rise to a kind of wrenching and shock force, which may hurt a golfer’s wrists.

[0003] In order to eliminate such drawback, some conventional golf-club head is integrally provided inside with a shock-absorbing layer for absorbing the wrench and shock force caused by hitting. The U.S. Pat. No. 5,772,527 is a typical example.

[0004] In accordance with U.S. Pat. No. 5,772,527, the striking face 21 of a golf-club head 2 is provided with a recess 22 having projection 23 around a front circumferential edge to be fixedly mounted with a metal face plate 25 by welding, closely sealing the recess 22 and forming an intermediate hollow with a slot 24 on upper edge for injecting shock-absorbing material into the recess 22 to form a shock-absorbing layer 1, as shown in FIGS. 1, 2, and 3.

[0005] However, the wrench and shock force of a golf-club head caused by hitting takes place instantly and spreads so quickly that it can hardly be absorbed completely by the single shock-absorbing layer inside the striking face of the golf-club head.

SUMMARY OF THE INVENTION

[0006] The objective of this invention is to offer a golf-club head having a function of effectively absorbing the wrench and shock force caused by hitting, enabling a golfer to acquire stability of ball controlling.

BRIEF DESCRIPTION OF DRAWINGS

[0007] This invention will be better understood by referring to the accompanying drawings, wherein:

[0008] FIG. 1 is a perspective view of a known conventional golf-club head with a metal faceplate separated:

[0009] FIG. 2 is a perspective view of the known conventional golf-club head:

[0010] FIG. 3 is a side cross-sectional view of the known conventional golf-club head:

[0011] FIG. 4 is an exploded perspective view of a golf-club head with a metal faceplate separated in the present invention:

[0012] FIG. 5 is a rear view of the golf-club head half-completed in the present invention:

[0013] FIG. 6 is a front view of the golf-club head in the present invention:

[0014] FIG. 7 is a rear view of the golf-club head in present invention:

[0015] FIG. 8 is a side cross-sectional view of the golf-club head in the present invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

[0016] A preferred embodiment of a shock-absorbing golf-club head in the present invention, as shown in FIG. 4 and 5, includes a front recess 32 in the striking face of a golf-club head, extending to the top and the rear portions of the striking face and communicating with a rear recess 33 by means of a plurality of through holes 321. Then, a shock-absorbing layer 4 is formed into shape and affixed to the front and the rear recesses 32, 33, and a metal face plate 34 is fixedly mounted on the front recess 32, having dented portion around its circumferential edge fixed with the striking face synchronously when the shock-absorbing layer 4 is formed and affixed to the front and the rear recesses as shown in FIGS. 6, 7, and 8.

[0017] In addition, the shock-absorbing layer 4 is formed by compression with shock-absorbing material such as pure rubber or thermoplastic elastomers (so called TPE).

[0018] Further, FIG. 8 shows that the front and the rear recesses 32, 33 are respectively provided with a shock-absorbing layer 4 formed integrally to make up a double-deck shock-absorbing layer. By so designing, the front shock-absorbing layer 4 in the striking face can directly absorb or lessen the wrench and shock force caused by hitting, and subsequently the rear shock-absorbing layer 4 in the rear recess 33 will completely absorb or eliminate the remaining shock force, thus obtaining an effectiveness of shock-absorbing, shock-lessening and stability of controlling balls.

[0019] While the preferred embodiment of the invention has been described above, it will be recognized and understood that various modifications may be made therein and the appended claims are intended to cover all such modifications that may fall within the spirit and scope of the invention.

I claim:

1. A shock-absorbing device for a golf club head comprising:

A front recess provided inside the striking face of a golf-club head, said front recess extending to a top and a rear portion of said striking face and communicating with a rear recess by means of plural through holes; and,

A metal face plate mounted on said front recess, said metal face plate having dented portion around its circumferential edge fixedly engaged with said striking face synchronously when shock-absorbing material is formed into shape and affixed to said front and rear recesses, forming a double-deck layer, effectively absorbing wrenching and shock force in hitting a golf ball so as to absorb and lessen shock and control a golf ball.

2. The shock-absorbing device for a golf-club head as claimed in claim 1, wherein said shock-absorbing material is of thermoplastic elastomers.

3. The shock-absorbing device for a golf-club head as claimed in claim 1, wherein said shock-absorbing material is of pure rubber material.