

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
16 August 2007 (16.08.2007)

PCT

(10) International Publication Number
WO 2007/092780 A3

(51) International Patent Classification:
A63B 53/04 (2006.01)

(21) International Application Number:
PCT/US2007/061553

(22) International Filing Date: 2 February 2007 (02.02.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
11/275,968 7 February 2006 (07.02.2006) US

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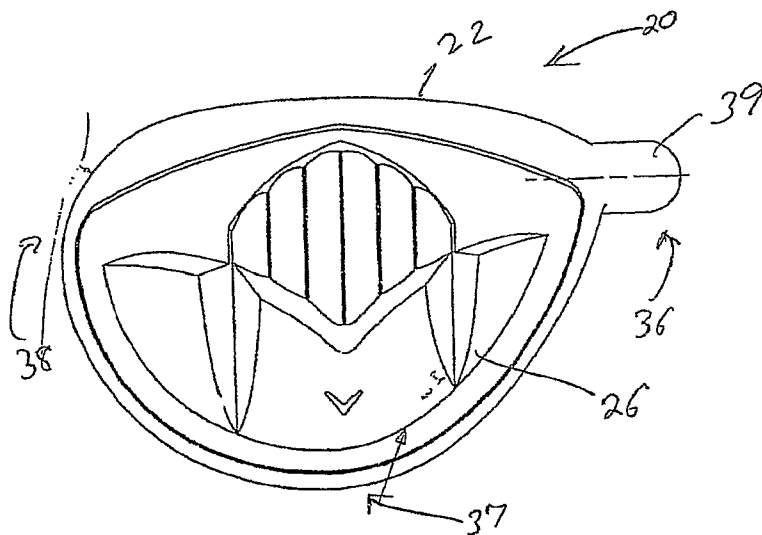
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

(88) Date of publication of the international search report:
27 November 2008

(54) Title: GOLF CLUB HEAD WITH METAL INJECTION MOLDED SOLE



(57) Abstract: A wood-type golf club head (20) with a main body (22) and a metal injection molded sole portion (26) is disclosed herein. The main body (26) has a face portion (30), a crown portion (24) a ribbon portion (28) and a bottom opening (31). The metal injection molded sole portion (26) is preferably brazed to the main body (22). The metal injection molded sole portion (26) preferably has a mass ranging from 45 grams to 110 grams. The metal injection molded sole portion (26) is preferably from 50 weight percent to 35 weight percent of the total mass of the wood-type golf club head (20).

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US07/61553

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **A63B 53/04(2006.01)**

USPC: 473/344,345,349
 According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 473/344, 345, 349

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

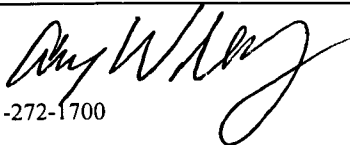
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 USPAT; EPO; JPO: sole, weight, grams, heel, thickness, inject, head, stainless, steel, density, opening

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,465,221 A (SCHMIDT) 14 August 1984, see entire document.	1-4, 6, 9-10
Y	US 5,582,553 A (ASHCRAFT et al.) 10 December 1996, see entire document.	1-4, 6, 9-10
Y	US 4,214,754 A (ZEBELEAN) 29 July 1980, see entire document.	1-4, 6, 9-10
Y	US 6,224,976 B1 (TAKUSHIMA et al.) 01 May 2001, see entire document.	1-4, 6, 9-10
Y	US 6,074,310 A (OTA) 13 June 2000, see entire document.	1-4, 6, 9-11
Y	US 6,478,842 B1 (GRESSEL et al.) 12 November 2002, see entire document.	1-4, 6, 9-11
Y	US 6,334,817 B1 (EZAWA et al.) 01 January 2002, see entire document.	1-4, 6, 9-11

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date (priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention)
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 15 August 2008 (15.08.2008)	Date of mailing of the international search report
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