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- (71) **Applicant (for all designated States except US):** **NIKE INTERNATIONAL LTD.** [GB/US]; One Bowerman Drive, Beaverton, Oregon 97005-6453 (US).
- (72) **Inventors; and**
- (75) **Inventors/Applicants (for US only):** **NIEGOWSKI, James A.** [US/US]; c/o NIKE, Inc., One Bowerman Drive, Beaverton, Oregon 97005 (US). **LAFORTUNE, Mario A.**

[CA/US]; c/o Nike, Inc., One Bowerman Drive, Beaverton, Oregon 97005 (US).

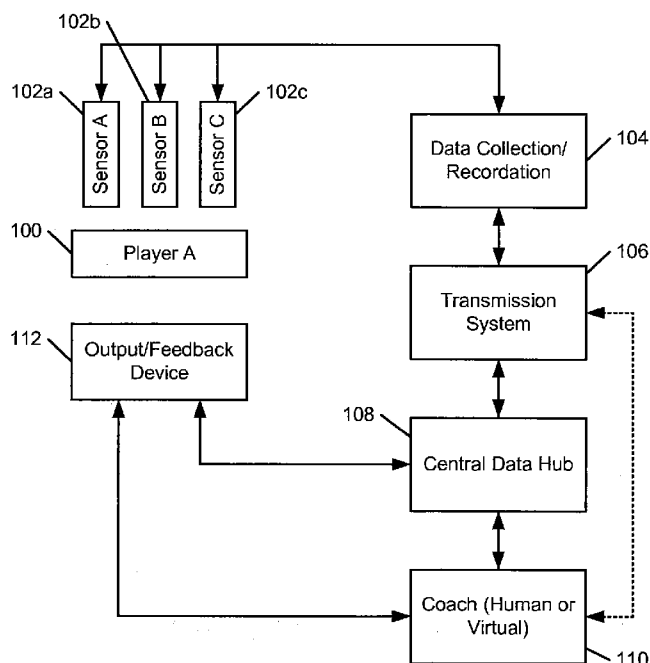
- (74) **Agent:** **RAUCHHOLZ, William F.**; Banner & Witcoff, LTD., 1100 13th Street N.W., Suite 1200, Washington, District of Columbia 20005 (US).

- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, 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, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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[Continued on next page]

(54) **Title:** SYSTEMS FOR ANALYZING GOLF DATA



- (57) **Abstract:** Systems and methods are described for providing coaching, training, or equipment specification information to individual golfers based on data generated during their individual golf swings. Additionally, data hubs are described that provide information and services to individuals based on data collected for a community of multiple golfers. Such community data hub systems and methods may provide one or more of the following: (a) storage of scoring data, swing data, ball flight data, and/or equipment data for multiple golfers; (b) at least some level of individual access to the stored data for the community; and/or (c) electronic interaction between golfers within the community.

FIG. 1



DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT,
LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE,
SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the
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INTERNATIONAL SEARCH REPORT

International application No
PCT/US2012/031233

A. CLASSIFICATION OF SUBJECT MATTER
INV. A63B24/00 A63B37/00 A63B53/00
ADD.

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)
A63B

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)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2009/209358 A1 (NIEGOWSKI JAMES A [US]) 20 August 2009 (2009-08-20) paragraphs [0008] - [0010], [0030] - [0054], [0059], [0063], [0065], [0066], [0077]; figures -----	1-10, 14, 15, 31-35, 40-52, 57-62
X	WO 99/65574 A2 (KIM CHEOL K [US]) 23 December 1999 (1999-12-23) page 3, lines 7-25 - page 8, lines 16-26 page 9, lines 1-25 - page 10, lines 23-29 page 11, lines 1-29 - page 19, lines 19-29; figures ----- -/-	1, 11-13



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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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

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"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

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

24 July 2012

Date of mailing of the international search report

30/01/2013

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040,
Fax: (+31-70) 340-3016

Authorized officer

Teissier, Sara

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2012/031233

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 634 855 A (KING JAMES A [US]) 3 June 1997 (1997-06-03) column 2, lines 32-67 - column 6, lines 37-67 column 7, lines 1-36; figures -----	1,12

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2012/031233

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-15, 31-35, 40-52, 57-62

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15, 31-35, 40-52, 57-62

a golf swing evaluation system with a golfer positioning system including at least one light generating device

2. claims: 16-18, 36-39, 53-56

a golf swing evaluation system comprising an alignment system

3. claims: 19-30

a golf swing evaluation system comprising a force sensing for a foot user.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2012/031233

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2009209358	A1	20-08-2009	NONE
WO 9965574	A2	23-12-1999	AU 4824599 A 05-01-2000
		KR 200000004852 A 25-01-2000	
		US 6149532 A 21-11-2000	
		WO 9965574 A2 23-12-1999	
US 5634855	A	03-06-1997	NONE