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Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR SHOT TRACKING

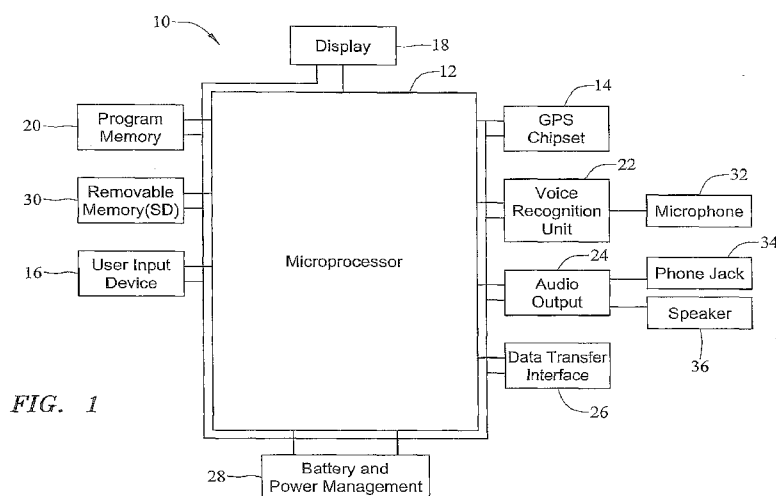


FIG. 1

(57) Abstract: A circuit for transmitting a RFID signal while conserving the battery power for a circuit in continuous operation is disclosed herein. The circuit includes a RFID component, a microprocessor, an accelerometer and a battery. The battery preferably has no more than 225 milliamp hours of power. The accelerometer is preferably a multiple axis accelerometer. The circuit is preferably utilized with a device for shot tracking.



(88) Date of publication of the international search report:

23 February 2012

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/027415**A. CLASSIFICATION OF SUBJECT MATTER****G06K 19/07(2006.01)i, G06K 17/00(2006.01)i**

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)

G06K 19/07; G06F 15/00; G08B 21/00; H04Q 5/22

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal) & Keywords: RFID, battery, resistor, switch, microprocessor, peak, current, impact, accelerometer

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2010-0045443 A1 (WAYNE E. STEEVES) 25 February 2010 See abstract, paragraph [0076] and figures 2,6	1,6,11,12
A	US 6073086 A (DAVE MARINELLI) 06 June 2000 See abstract, column 4, lines 18-60 and figure 15	1,6,11,12
A	US 6441745 B1 (CASSEN L. GATES) 27 August 2002 See abstract, claim 1 and figure 1	1,6,11,12

☐ 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

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"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

29 DECEMBER 2011 (29.12.2011)

Date of mailing of the international search report

02 JANUARY 2012 (02.01.2012)

Name and mailing address of the ISA/KR

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US2011/027415

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:

- I. Claims 1 and 11 are directed to a circuit for transmitting a RFID signal, and claims 6 and 12 are a method for transmitting a RFID signal
- II. Claims 2 and 10 are directed to a device for tracking a golfer's shot, claim 4 is directed to a circuit for conserving power for a shot tracking device, and claim 8 is directed to a method for shot tracking.
- III. Claims 3, 7 and 9 are directed to a system for automatically tracking a golf club.
- IV. Claim 5 is directed to a method for dynamic collision avoidance of graphical and textual elements on a display.

Since the above mentioned groups of claims do not share any of the technical features identified, a technically special relationship between the inventions does not exist.

Accordingly the claims do not relate to one invention or to a single inventive concept, a priori.

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 fee, this Authority did not invite payment of any additional fee.

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.:
1,6,11,12

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.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/027415

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2010-0045443 A1	25.02.2010	AU 2000-60962 A1 US 2006-0066444 A1 US 2006-0071756 A1 US 7005985 B1 US 7271727 B2 US 7629886 B2 WO 01-06444 A1	05.02.2001 30.03.2006 06.04.2006 28.02.2006 18.09.2007 08.12.2009 25.01.2001
US 6073086 A	06.06.2000	AU 1999-21074 A1 WO 99-36859 A1	02.08.1999 22.07.1999
US 6441745 B1	27.08.2002	None	