

UNITED STATES PATENT AND TRADEMARK OFFICE

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BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040 Mail Date: 04/21/2010

Applicant	:	Philippe Kahn
Patent Number	:	7653508
Issue Date	:	01/26/2010
Appliction No	:	11/644,455
Filed	:	12/22/2006

: DECISION ON REQUEST FOR : RECALCULATION OF PATENT : TERM ADJUSTMENT IN VIEW : OF WYETH AND NOTICE OF INTENT TO : ISSUE CERTIFICATE OF CORRECTION

The Request for Recalculation is **GRANTED** to the extent indicated.

The patent term adjustment has been determined to be **556** days. The USPTO will *sua sponte* issue a certificate of correction reflecting the amount of PTA days determined by the recalculation.

Prior to the issuance of the certificate of correction, the USPTO will afford patentee an opportunity to be heard and request reconsideration. Accordingly, patentee has **one month or thirty (30) days**, whichever is longer, to file a request for reconsideration of this patent term adjustment calculation. See 35 U.S.C. 154(b)(3)(B)(ii) and 37 CFR 1.322(a)(4). No extensions of time will be granted under 37 CFR 1.136.

Patentee should use document code PET.OP if electronically filing a request for reconsideration of this patent term adjustment calculation. The patentee must also include the information required by 37 CFR 1.705(b)(2) and the fee required by 37 CFR 1.18(e). If patentee does not file a timely request for reconsideration of this patent term adjustment calculation including the information required by 37 CFR 1.705(b)(2) and the fee required by 37 cFR 1.18(e), the USPTO will issue a certificate of correction reflecting the PTA determination noted above.

Patentee should be aware that in order to preserve the right to review in the United States District Court for the District of Columbia of the USPTO patent term adjustment determination, patentee must ensure that he or she also take the steps required under 35 U.S.C. 154(b)(4)(A) in a timely manner. Nothing in the request for recalculation should be construed as providing an alternative time frame for commencing a civil action under 35 U.S.C. 154(b)(4)(A)

Any questions concerning this decision should be directed to the Office of Patent Legal Administration at 571-272-7702.

PTOL-549G (04/10)

REQUEST FOR RECALCULATION OF PATENT TERM ADJUSTMENT IN VIEW OF WYETH*

Attorney Docket Number: 8689P027

Application Number: 11/644,455

Filing Date (or 371(b) or (f) Date): December 22, 2006

Patent Number: 7,653,508

January 26, 2010

First Named Philippe Kahn

Title: Human Activity Monitoring Device

PATENTEE HEREBY REQUESTS RECALCULATION OF THE PATENT TERM ADJUSTMENT (PTA) UNDER 35 USC 154(b) INDICATED ON THE ABOVE-IDENTIFIED PATENT. THE PATENTEE'S SOLE BASIS FOR REQUESTING THE RECALCULATION IS THE USPTO'S PRE-*WYETH* INTERPRETATION OF 35 U.S.C. 154(b)(2)(A).

Note: This form is only for requesting a recalculation of PTA for patents issued before March 2, 2010, if the sole basis for requesting the recalculation is the USPTO's pre-*Wyeth* interpretation of 35 U.S.C. 154(b)(2)(A). See Instruction Sheet on page 2 for more information.

Patentees are reminded that to preserve the right to review in the United States District Court for the District of Columbia of the USPTO's patent term adjustment determination, a patentee must ensure that he or she also takes the steps required under 35 U.S.C. 154(b)(3) and (b)(4) and 37 CFR 1.705 in a timely manner.

*Wyeth v. Kappos, No. 2009-1120 (Fed. Cir., Jan. 7, 2010).

_{Signature} /Judith Szepesi/	_{Date} February 19, 2010				
Name (Print/Typed) Judith A. Szepesi	Registration Number 39,393				
Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the form of the signature. If necessary, submit multiple forms for more than one signature, see below*.					
✓ *Total of 1 forms are submitted.					

The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Instruction Sheet for: REQUEST FOR RECALCULATION OF PATENT TERM ADJUSTMENT IN VIEW OF WYETH* (Not to be Submitted to the USPTO)

This form is only for requesting a recalculation of PTA for patents issued before March 2, 2010, if the sole basis for requesting the recalculation is the USPTO's pre-Wyeth interpretation of 35 U.S.C. 154(b)(2)(A). This form must be filed within 180 days of the day the patent was granted, with the following exception:

Patentees who received a decision from the USPTO under the USPTO's pre-<u>Wyeth</u> interpretation of 35 U.S.C. 154(b)(2)(A) may file a request for reconsideration of that decision if such a request for reconsideration is filed within **two months** of the date of the decision (37 CFR 1.181(f)). If the patentee's sole basis for requesting reconsideration of the decision is the USPTO's pre-<u>Wyeth</u> interpretation of 35 U.S.C. 154(b)(2)(A), the request for reconsideration need only state that reconsideration is being requested in view of <u>Wyeth</u> (this form may be used for this purpose if it is filed within **two months** of the date of the decision from the USPTO).

Do not use this form if the application has been allowed, but not yet issued as a patent.

- 1. For patents issued before March 2, 2010: A request for reconsideration under 37 CFR 1.705(d) and the fee set forth in 37 CFR 1.18(e) are not required, provided that the patentee's sole basis for requesting recalculation of the PTA in the patent is the USPTO's pre-*Wyeth* interpretation of 35 U.S.C. 154(b)(2)(A) and this form is filed within 180 days of the day the patent was granted.
- 2. For patents issued on or after March 2, 2010 (do not use this form): Patentees seeking a revised PTA in a patent issued on or after March 2, 2010, must file a request for reconsideration under 37 CFR 1.705(d) that complies with the requirements of 37 CFR 1.705(b)(1) and (b)(2) within two months of the day the patent issued.

For more information, see "Notice Concerning Calculation of the Patent Term Adjustment With Respect to the Overlapping Delay Provision of 35 U.S.C. 154(b)(2)(A)" available on the USPTO Web site at http://www.uspto.gov/patents/law/notices/2010.jsp.

*Wyeth v. Kappos, No. 2009-1120 (Fed. Cir., Jan. 7, 2010).

Page 2

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acl	knowledgement Receipt
EFS ID:	7051773
Application Number:	11644455
International Application Number:	
Confirmation Number:	5415
Title of Invention:	HUMAN ACTIVITY MONITORING DEVICE
First Named Inventor/Applicant Name:	Philippe Kahn
Customer Number:	08791
Filer:	Judith A. Szepesi
Filer Authorized By:	
Attorney Docket Number:	8689P027
Receipt Date:	19-FEB-2010
Filing Date:	22-DEC-2006
Time Stamp:	19:40:06
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment			no				
File Listing:							
Document Number	Document Description		File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)	
1	Request for PTA recalculation in view of Wyeth	86	89P027_Request_for_Recalc	128819		3	
		ulation.pdf		e3f5108b94308c9a7c40b9503ebd2b3e6e2 a9ac1	no	2	
Warnings:					<u> </u>		
Information:							

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	APPLICATION NO. ISSUE DATE PA		ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/644,455	01/26/2010	7653508	8689P027	5415

8791 7590 01/06/2010 BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040

ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 556 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

APPLICANT(s) (Please see PAIR WEB site http://pair.uspto.gov for additional applicants):

Philippe Kahn, Aptos, CA; Arthur Kinsolving, Santa Cruz, CA; Mark Andrew Christensen, Santa Cruz, CA; Brian Y. Lee, Aptos, CA; David Vogel, Santa Cruz, CA;

IR103 (Rev. 10/09)

11644455 - GAU: 2863

Substitute	Substitute for Form 1449/PTO				Complete if Known		
			TION DISCLOSUR	E	Application Number	11/644,455	
				Filing Date	December 22, 2006		
	STAT	EME	ENT BY APPLICAN	Г	First Named Inventor:	Philippe Kahn	
		(use as	many sheets as necessary)	Art Unit	2856		
					Examiner Name	Not Yet Assigned	
Sheet	2		of	3	Attorney Docket Number	7538.P027	
			U.S. PATEN	T DOCUMENTS			
Examiner Initials*	Cite No.	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant	
		Num	ber-Kind Code ² (If known)			Figures Appear	
/FC/		US-	7,171,331	1/30/2007	Vock, et al.		
/FC/		US-	7,200,517	4/3/2007	Darley, et al.		
/E.C./		US-	7,212,943	5/1/2007	Aoshima, et al.		
/FC/		US-	7,220,220	5/22/2007	Stubbs, et al.		
/E.C./		US-	2002/0109600	8/15/2002	Mault, James R.; et al.		
/E.C./		US	2002/0151810	10/17/2002	Wong, Philip Lim-Kong; et al.		
/E.G./		US-	2005/0240375	10/27/2005	Sugai, Yoshinori		
/FC/		US-	2005/0248718	11/10/2005	Howell, Thomas A., et al.		
VF C./		US-	2006/0136173	6/22/2006	Charles Whipple-JR.; et al.		
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FOREIGN PATENT DOCUMENTS									
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at <u>www.uspto.gov</u> or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language transition is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application from to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Based on Form PTO/SB/08B (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03.

Receipt date: 12/03/2008

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11644455 - GAU: 2863

Substitute for Form 1449/PTO					Complete if Known			
	INFOR	MA	TION DISCLOSUR	F	Application Number	11/644.455		
					Filing Date	December 22, 2006		
	STATE	EME	ENT BY APPLICAN	Г	First Named Inventor:	Philippe Kahn, et al.		
(use as many sheets as necessary)					Art Unit	2856		
					Examiner Name	Kwok, Helen C.		
Sheet	1		of	2	Attorney Docket Number	8689P027		
			U.S. PATEI	NT DOCUMENT	S			
Examiner Cite No.1 Initials*			Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant		
	Number-Kind Code ² (If known)				Figures Appear			
/E.C./		US-	6.836.744 B1	12/28/2004	Asphahani, et al.			
/E.C./		US-	6,941,239 B2	9/6/2005	Unuma, et al.			
/E.C./	7328611	US-	- -7,382,611	2/12/2008	Klees, et al.			
/E.C./		US-	2007/0063850 A1	3/22/2007	Devaul; Richard W.; et al			
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	Sheet Examiner Initials* /E.C./ /E.C./	INFOR STATE	INFORMA STATEME (use as Sheet 1 Examiner Initials* Cite No.' Initials* Numb /E.C./ US- /E.C./ US- /E.C./ US- /E.C./ US- US- US- US- US- US- US- US- US- US-	INFORMATION DISCLOSUR STATEMENT BY APPLICAN (use as many sheets as necessary) Sheet 1 of Sheet 1 of Examiner Initials* Cite No.' Document Number Number-Kind Code²(II known) //E.C./ Us- 6.836.744 B1 /E.C./ Us- 6.836.744 B1 ////////////////////////////////////	INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Sheet 1 of 2 Sheet 1 of 2 U.S. PATENT DOCUMENT: Examiner Initials* Cite No. ¹ Document Number Publication Date MM-DD-YYYY Kindle 0 <td>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Application Number Filing Date First Named Inventor: At Unit Sheet 1 of 2 Attorney Docket Number Sheet 1 of 2 Attorney Docket Number Sheet 1 of 2 Attorney Docket Number Examiner Initials* Cite No.' Document Number Publication Date MM-DD-YYYY Name of Patentee or Applicant of Cited Document /E.C./ Us 6.836.744 B1 12/28/2004 Asphahani, et al. /E.C./ Us 6.941.239 B2 9/6/2005 Unuma, et al. /E.C./ 73286/1/ Us 2/212/2008 Klees, et al. /E.C./ Us 2007/0063850 A1 3/22/2007 Devaul; Richard W.; et al Us us us us us us Us us us us us us Us us us us us us us Us us us us us us us us Us us us us</td>	INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) Application Number Filing Date First Named Inventor: At Unit Sheet 1 of 2 Attorney Docket Number Sheet 1 of 2 Attorney Docket Number Sheet 1 of 2 Attorney Docket Number Examiner Initials* Cite No.' Document Number Publication Date MM-DD-YYYY Name of Patentee or Applicant of Cited Document /E.C./ Us 6.836.744 B1 12/28/2004 Asphahani, et al. /E.C./ Us 6.941.239 B2 9/6/2005 Unuma, et al. /E.C./ 73286/1/ Us 2/212/2008 Klees, et al. /E.C./ Us 2007/0063850 A1 3/22/2007 Devaul; Richard W.; et al Us us us us us us Us us us us us us Us us us us us us us Us us us us us us us us Us us us us		

FOREIGN PATENT DOCUMENTS										
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵ .				
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Examiner		Date Considered	
Signature	/Edward Cosimano/		08/22/2009

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at <u>www.uspto.gov</u> or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language translation is attached

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by Ihe USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Based on Form PTO/SB/08A (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03.

Apple v. Uniloc

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with pplicable fee(s), to: <u>Mail</u> Mail Stop ISSUE The E Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or <u>Fax</u> (57	1)-273-2885		10 1100	
INSTRUCTIONS: This fi appropriate. All further ca indicated unless corrected maintenance fee notification	below or directed otl	for transmitting the ISS ng the Patent, advance herwise in Block 1, by	orders and notification of (a) specifying a new corre	maintenance fees w spondence address;	vill be ma ; and/or (b	iled to the current) indicating a sepa	hould be completed where correspondence address as arate "FEE ADDRESS" for
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		·		December 9	, 2009		(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORN	EY DOCKET NO.	CONFIRMATION NO.
11/644,455	12/22/2006	I	Philippe Kahn		8	689P027	5415
TITLE OF INVENTION: I	HUMAN ACTIVITY I	MONITORING DEVIC	E				
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APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUI	E FEE	FOTAL FEE(S) DUE	DATE DUE
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 1. Change of correspondence address or indication of "Fce Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 2. The patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 2. The patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 2. The patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, 3. Judith A. Szepesi 					& Zafman, LLP		
3, ASSIGNEE NAME ANI	D RESIDENCE DATA	TO BE PRINTED ON	THE PATENT (print or ty	pe)			
PLEASE NOTE: Unles recordation as set forth i (A) NAME OF ASSIGN DP TECHNOLOG	IEE	ified below, no assigned eletion of this form is NC	e data will appear on the p DT a substitute for filing an (B) RESIDENCE: (CITY Scotts Valley	and STATE OR C	COUNTRY		ocument has been filed for
Please check the appropriat	e assignee category or	categories (will not be p	printed on the patent) :	Individual 🖾 Co	poration	or other private gro	up entity 🔲 Government
4a. The following fcc(s) are ⊠ Issue Fee □ Publication Fee (No	Please check the appropriate assignee category or categories (will not be printed on the patent) : Individual I Corporation or other private group entity Government 4a. The following fee(s) are submitted: 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) Issue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number <u>02-2666</u> (enclose an extra copy of this form).						
5. Change in Entity Status	MALL ENTITY statu	s. See 37 CFR 1.27.	b. Applicant is no lon				
NOTE: The Issue Fee and F interest as shown by the rec	Publication Fee (if requied ords of the United States)	es Patent and Trademar	ed from anyone other than t k Office.	he applicant; a regis	stered atto	rney or agent; or the	e assignee or other party in
Authorized Signature						ember 9, 200	
Typed or printed name _						393	
This collection of informati an application. Confidential submitting the completed a this form and/or suggestion Box 1450, Alexandria, Virg Alexandria, Virginia 22313	on is required by 37 Cl ity is governed by 35 pplication form to the s for reducing this bur inia 22313-1450. DO -1450.	FR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will var den, should be sent to ff NOT SEND FEES OR	ion is required to obtain or r 1.14. This collection is est y depending upon the indiv the Chief Information Office COMPLETED FORMS TO	etain a benefit by th imated to take 12 m idual case. Any co r, U.S. Patent and 7 D THIS ADDRESS.	ne public v ninutes to mments or Trademark . SEND To	which is to file (and complete, including the amount of tim Office, U.S. Depar O: Commissioner for	by the USPTO to process) g gathering, preparing, and le you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,

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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE OMB 0651-0033

Page 10 of 251

Electronic Patent Application Fee Transmittal						
Application Number:	110	644455				
Filing Date:	22.	-Dec-2006				
Title of Invention:	HU	HUMAN ACTIVITY MONITORING DEVICE				
First Named Inventor/Applicant Name:	Ph	Philippe Kahn				
Filer:	Judith A. Szepesi/Joan Abriam					
Attorney Docket Number:	8689P027					
Filed as Large Entity						
Utility under 35 USC 111(a) Filing Fees						
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)	
Basic Filing:						
Pages:						
Claims:						
Miscellaneous-Filing:						
Petition:						
Patent-Appeals-and-Interference:						
Post-Allowance-and-Post-Issuance:						
Utility Appl issue fee		1501	1	1510	1510	
Extension-of-Time:						

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
	Total in USD (\$)			1510

Electronic Ack	Electronic Acknowledgement Receipt				
EFS ID:	6607065				
Application Number:	11644455				
International Application Number:					
Confirmation Number:	5415				
Title of Invention:	HUMAN ACTIVITY MONITORING DEVICE				
First Named Inventor/Applicant Name:	Philippe Kahn				
Customer Number:	08791				
Filer:	Judith A. Szepesi				
Filer Authorized By:					
Attorney Docket Number:	8689P027				
Receipt Date:	09-DEC-2009				
Filing Date:	22-DEC-2006				
Time Stamp:	22:26:20				
Application Type:	Utility under 35 USC 111(a)				

Payment information:

Submitted with Payment no						
File Listing:						
Document Number	Document Description		File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	lssue Fee Payment (PTO-85B)		8689P027 Issue Fee.pdf	211575		1
			0009F027_1550e_ree.pui	abbd78dc49054e34247e3479a68a3cffb30 0f785	no	I
Warnings:						
Information:						

2	Fee Worksheet (PTO-875)	fee-info.pdf	30374 0c8974e0bc560db03576dd44518584e6f3e 176dd	no	2		
Warnings:							
Information:							
Total Files Size (in bytes): 241949							
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. New Applications Under 35 U.S.C. 111 If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. National Stage of an International Application under 35 U.S.C. 371 If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. New International Application Filed with the USPTO as a Receiving Office If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning							

		PART	B - FEE(S) TRANS	AITTAL	·	
/	9 2009	with _pplicable	P.C Ale	uil Stop ISSUE mmissioner for Pate). Box 1450 xandria, Virginia 2: 1)-273-2885		
INSTRUCTIONS This form appropriate. All further corre- indicated unless corrected by maintenance fee notifications	n should be used for tra- spondenee including the	nsmitting the ISS Patent, advance of ac in Block 1, by (UE FEE and PUBLICATI orders and notification of r a) specifying a new corres	ON FEE (if required). En naintenance fees will be spondence address; and/or	Blocks 1 through 5 sh mailed to the current (b) indicating a sepa	ould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE	ADDRESS (Note: Use Block I f		Not Fee papi navi	e: A certificate of mailing (s) Transmittal. This certif ers. Each additional paper, e its own certificate of mai	can only be used for icate cannot be used for such as an assignmen ling or transmission.	domestic mailings of the or any other accompanying at or formal drawing, must
8791 7590 BLAKELY SOKC 1279 OAKMEAD P SUNNYVALE, CA	LOFF TAYLOR ARKWAY	& ZAFMAN I	LLP		ertificate of Transn Fce(s) Transmittal	nission is being submitted
2/10/2009 RMEBRAH1 0000	• •	4455	Γ	Judith A. Szepe		(Depositor's name)
1 FC:1501 1510.00) DA		ŀ	/Judith Szepes:		(Signature)
		·		December 9, 20	09	(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
11/644,455	12/22/2006		Philippe Kahn		8689P027	5415
TITLE OF INVENTION: HU	· .	SSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	· \$0	\$1510	03/01/2010
EXAMINER		ART UNIT	CLASS-SUBCLASS		· .	
COSIMANO, EDV	VARD R	2863	702-160000		· ·	
 Change of correspondence is CFR 1.363). Change of corresponde Address form PTO/SB/122 "Fee Address" indicatio PTO/SB/47; Rev 03-02 or Number is required. 	nce address (or Change o) attached.	f Correspondence	(2) the name of a single registered attorney or a	3 registered patent attorn rely, e firm (having as a member gent) and the names of up meys or agents. If no nam	era 2 <u>Taylor 8</u> oto	Sokoloff, 2 Zafman, LLP A. Szepesi
3. ASSIGNEE NAME AND F PLEASE NOTE: Unless a recordation as set forth in 3 (A) NAME OF ASSIGNEE DP TECHNOLOGI	n assignee is identified 1 7 CFR 3.11. Completion		data will appear on the pa T a substitute for filing an a	atent. If an assignce is id assignment. and STATE OR COUNT		cument has been filed for
Please check the appropriate a	ssignee category or categ	ories (will not be p	ninted on the patent) :	Individual 🖾 Corporatio	on or other private grou	p entity Government
4a. The following fee(s) are su Issue Fee Publication Fee (No smi Advance Order - # of C 5. Change in Eutity Status (fi	bmitted: all entity discount permit opics	41 	 D. Payment of Fee(s): (Plean A check is enclosed. Payment by credit card 		iously paid issue fee s ched.	hown above)
a. Applicant claims SM			b. Applicant is no long	er claiming SMALL ENT	ITY status. See 37 CF.	R 1.27(g)(2).
NOTE: The Issue Fee and Pub interest as shown by the record	lication Fee (if required) s of the United States Pa	will not be accepted ent and Trademark	d from anyone other than th Office.	e applicant; a registered a	ttorney or agent; or the	assignee or other party in
Authorized Signature				DateDe	cember 9, 200	9
Typed or printed name				Registration No. 39		
This collection of information an application. Confidentiality submitting the completed appl this form and/or suggestions fo Box 1450, Alexandria, Virginia Alexandria, Virginia 2231 3-14. Under the Paperwork Reductio	JU. ·					
PTOL-85 (Rev. 08/07) Approv	red for use through 08/31	/2010.	OMB 0651-0033 U.	S. Patent and Trademark (Office; U.S. DEPARTI	MENT OF COMMERCE

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UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF	COMMERCE
United States Patent and Trademark	Office
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P.O. Box 1450	
Alexandria, Virginia 22313-1450	
www.uspto.gov	

NOTICE OF ALLOWANCE AND FEE(S) DUE

8791 7590 11/30/2009 BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040

EXAMINER					
COSIMANO, EDWARD R					
ART UNIT	PAPER NUMBER				
2863					

DATE MAILED: 11/30/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
11/644,455	12/22/2006	Philippe Kahn	8689P027	5415	
TITLE OF INVENTION: HUMAN ACTIVITY MONITORING DEVICE					

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	03/01/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN <u>THREE MONTHS</u> FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. <u>THIS STATUTORY PERIOD CANNOT BE EXTENDED</u>. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:	If the SMALL ENTITY is shown as NO:
A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.	A. Pay TOTAL FEE(S) DUE shown above, or
B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or	B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

Page 1 of 3

Apple v. Uniloc

Page 16 of 251

PART B - FEE(S) TRANSMITTAL

Complete and se	nd this form, toget	her with applicab		il Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 <u>x</u> (571)-273-2885					
INSTRUCTIONS: This appropriate. All further indicated unless correct maintenance fee notifica	form should be used f correspondence includir ed below or directed oth tions.	or transmitting the ISS ag the Patent, advance herwise in Block 1, by	SUE FEE and PUBLIC orders and notification (a) specifying a new c	CATIO of ma	DN FEE (if require aintenance fees wil ondence address; a	ed). Blo ll be ma and/or (t	cks 1 through 5 sh illed to the current (b) indicating a separ	ould be completed who correspondence address ate "FEE ADDRESS"	ere as for
CURRENT CORRESPOND	ENCE ADDRESS (Note: Use Bl		3)	Fee(s)) Transmittal. This	certifica paper, si	tte cannot be used fo uch as an assignmen	domestic mailings of t r any other accompanyi t or formal drawing, m	ing
8791 7590 11/30/2009 BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040			States	by certify that this Service wit	Fee(s) ' th suffic	ient postage for first	tission deposited with the Unit class mail in an envelo tbove, or being facsim te indicated below.	one	
								(Depositor's nam	1e)
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					I.		EV DOCKET NO	CONFIRMATION NO.	(10)
APPLICATION NO. 11/644,455	FILING DATE 12/22/2006		FIRST NAMED INVEN Philippe Kahn	TOK	1		EY DOCKET NO.	5415	
TITLE OF INVENTION	I: HUMAN ACTIVITY I	MONITORING DEVIC	E						
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE I	DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1510	\$0		\$0		\$1510	03/01/2010	
EXAMINER ART UNIT		CLASS-SUBCLASS	ŝ						
	, EDWARD R	2863	702-160000						
 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 		 2. For printing on the patent front page, list the names of up to 3 registered patent attorneys or agents OR, alternatively, the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 							
PLEASE NOTE: Un recordation as set fort (A) NAME OF ASSI		ified below, no assigne oletion of this form is N	e data will appear on t OT a substitute for filin (B) RESIDENCE: (0	he pate g an as CITY a	ent. If an assignee ssignment. and STATE OR CC	OUNTRY	Y)		
Please check the appropr	riate assignee category or	categories (will not be	printed on the patent):	ΠI	individual 📮 Corj	poration	or other private grou	ap entity 🖵 Governme	nt
	are submitted: No small entity discount p # of Copies	permitted)	 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number(enclose an extra copy of this for 				iciency, or credit any).	
a. Applicant claim	itus (from status indicated as SMALL ENTITY statu	is. See 37 CFR 1.27.	b . Applicant is no						_
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if requered records of the United Sta	uired) will not be accept tes Patent and Tradema	ted from anyone other t rk Office.	han the	e applicant; a regist	ered atto	orney or agent; or the	e assignee or other party	in
Authorized Signature					Date				
Typed or printed nam	ie				Registration No				
Alexandria, virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this bus /irginia 22313-1450. DC 313-1450. duction Act of 1995, no p								ss) .nd ete .O. 50,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

OMB 0651-0033 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Apple v. Uniloc

Page 17 of 251

	ITED STATES PATE	NT AND TRADEMARK OFFICE	UNITED STATES DEPAR United States Patent and Address: COMMISSIONER F P.O. Box 1450 Alexandria, Virginia 223 www.uspto.gov	OR PATENTS
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
11/644,455	12/22/2006	Philippe Kahn	8689P027	5415
8791 75	i90 11/30/2009		EXAN	IINER
BLAKELY SOK	OLOFF TAYLOR &	z ZAFMAN LLP	COSIMANO,	EDWARD R
1279 OAKMEAD			ART UNIT	PAPER NUMBER
SUNNYVALE, CA	4 94085-4040		2863	
			DATE MAILED: 11/30/200	9

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 556 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 556 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

	Application No.	Applicant(s)
	11/644,455	KAHN ET AL.
Notice of Allowability	Examiner	Art Unit
	Edward R. Cosimano	2863
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	(OR REMAINS) CLOSED in this ap) or other appropriate communicatio (IGHTS. This application is subject)	pplication. If not included n will be mailed in due course. THIS
1. X This communication is responsive to <u>the RCE, Amendmen</u>	nt & IDS filed on 09 October 2009.	
2. ⊠ The allowed claim(s) is/are <u>1-20</u> .		
 3. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 2. Certified copies of the priority documents hav 	e been received.	
 Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	ocuments have been received in this	national stage application from the
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDOM		complying with the requirements
THIS THREE-MONTH PERIÓD IS NÓT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be subn INFORMAL PATENT APPLICATION (PTO-152) which giv		
 5. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date 	son's Patent Drawing Review(PTO -	
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the draw the header according to 37 CFR 1.121	ings in the front (not the back) of (d).
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. 🗌 Notice of Informal I	Patent Application
 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 	6. Interview Summary	
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7. X Examiner's Amend	ate
Paper No./Mail Date <u>10/09/2009</u>		
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Statem 9. □ Other	ent of Reasons for Allowance
U.S. Patent and Trademark Office		
PTOL-37 (Rev. 08-06) N	otice of Allowability	Part of Paper No./Mail Date 20091109

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 09 October 2009 has been entered.

2. EXAMINER'S COMMENT

2.1 When preparing this Office action the examiner considers the instant application to include:

A) the Oath/Declaration filed on 02 April 2007 which is acceptable to the examiner;

B) the Abstract filed on 22 December 2006 which is acceptable to the examiner;

C) figures 1, 2, 3, 4, 5, 6, 7, 8 & 9 of the set of drawings containing 9 sheets of 9 figures comprising figures 1, 2, 3, 4, 6, 7, 8 & 9 as presented in the set of drawings filed on 22 December 2006 and figure 5 as presented in the set of drawing filed on 09 October 2009 where the content of figures 1, 2, 3, 4, 5, 6, 7, 8 & 9 of the above set of drawings is acceptable to the examiner;

D) the written description as filed on 22 December 2006 and amended on 09 October 2009;

E) the set of claims as filed on 22 December 2006; and

F) the Non publication request of 25 June 2007.

2.2 The examiner has approved the proposed changes to figure 5 of the drawings as filed on 09 October 2009.

RESPONSE TO APPLICANT'S ARGUMENTS

3.1 The objections and rejection that have not been repeated here in have been over come by applicant's last response.

4.

3.

REASONS FOR ALLOWANCE

4.1 The following is a statement of reasons for the indication of allowable subject matter:A) the prior art, for example:

Art Unit: 2863

(1) Ebeling et al (6,145,389) discloses a machine/process that provides the useful and beneficial function of pedometer in which the time variation of a measured acceleration, representing the steps or stride of an user, is evaluated or analyzed in order to determine if the user is running or walking. Further, the evaluation or analysis of the measured acceleration is used in order to more accurately determine a count of the user's steps or strides and to determine an accurate determination of the user's step or stride distance. Then based on the determinations of whether the user is running or walking, the step or stride count, and the distance traveled during one step or stride, the total distance traveled by the user may be determined.

(2) either Sakuria et al (6,369,794) or Kubo et al (2002/0089425 or 6,700,499) or Ladetto et al (2003/0018430 or 6,826,477) disclose a machine/process that provides the useful and beneficial function of determining an user's action or motion in which the time variation of a measured acceleration, representing the user's action or motion, is evaluated or analyzed in order to determine the user's action or motion.

(3) either Tsuji (2005/0232388 or 2005/0238132 or 7,169,084 or 7,297,088) or Park et al (2007/0067094) disclose a machine/process that provides the useful and beneficial function of pedometer in which the time variation of a measured acceleration, representing the steps or stride of an user, is evaluated or analyzed in order to determine if the user is running or walking. Further, the evaluation or analysis of the measured acceleration with in a time window of an expected period or interval representing a cadence or step interval or period is used in order to more accurately determine a count of the user's steps or strides. Then based on the determined.

(4) either Seo et al (2006/0020177 or 7,334,472) disclose a machine/process that provides the useful and beneficial function of placing an acceleration based pedometer machine/process into a sleep or low power mode in which the sampling frequency is changed, when a step is not detected with in a

Art Unit: 2863

predetermined period/interval of time and then wakes the pedometer up when a step is detected.

B) however, the prior art does not fairly teach or suggest in regard to claims 1 & 11 a process in claim 1 and a machine in claim 11 that provides the useful and beneficial function of monitoring human activity by providing actions in claim 1 and structures in claim 11 that perform at least the functions of:

(1) continuously determining the orientation of an inertial sensor;

(2) assigning a dominate axis for the inertial axis;

(3) updating the dominate axis for the inertial axis as the orientation of the inertial sensor changes; and

(4) counting periodic human activity by using the inertial sensor to monitor accelerations relative to the dominate axis of the inertial sensor.

Claims 2-5, which depend from claim 1, and claims 12-14, which depend from claim 11, are allowable for the same reason.

C) however, the prior art does not fairly teach or suggest in regard to claims 6 & 15 a process in claim 6 and a machine in claim 15 that provides the useful and beneficial function of monitoring human activity by providing actions in claim 6 and structures in claim 15 that perform at least the functions of:

(1) operating a device, including an inertial sensor, in a non-active mode to buffer human motions;

(2) operating the device with the inertial sensor, in an active mode after a predetermined number of human motions have been detected with in an appropriate cadence window; and

(3) monitoring human activity by counting each periodic human activity while operating the device with the inertial sensor, in the active mode.

Claims 7-10, which depend from claim 6, and claims 16-20, which depend from claim 15, are allowable for the same reason.

5.

CONCLUSION

5.1 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward R. Cosimano whose telephone number is 571-272-0571.

The examiner can normally be reached on 571-272-0571 from 7:30am to 4:00pm (Eastern Time).

5.2 If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn, can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

5.3 Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ERC 11/09/2009

> /Edward Cosimano/ Primary Examiner Unit 2863

Notice of References Cited	Application/Control No. 11/644,455	Applicant(s)/Patent Under Reexamination KAHN ET AL.		
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	Edward R. Cosimano	2863	Page 1 of 1	

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*	в	US-7,334,472	02-2008	Seo et al.	73/379.01
	С	US-			
	D	US-			
	Е	US-			
	F	US-			
	G	US-			
	Н	US-			
	Ι	US-			
	J	US-			
	к	US-			
	L	US-			
	М	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
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NON-PATENT DOCUMENTS

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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20091109

	Туре	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	456364	(dominate or principle or major or first or primary) near3 (axis or orientate or orientated or orientating or orientation or align or aligned or aligning or alignment)	US-PGPUB; USPAT; UPAD	2009/11/09 10:29
2	BRS	L2	2657	1 near5 (alpha or acc or accelerate or accelerated or accelerating or acceleration or accelerometer or inertial)	US-PGPUB; USPAT; UPAD	2009/11/09 10:30
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		1182650	or acquire or acquired or	US-PGPUB; USPAT; UPAD	2009/11/09 10:33

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7	BRS	L7	855	2 same (5 or 6 or step or motion or human or run or running or walk or walking or cadence or stride or pedometer or distance or length)	US-PGPUB; USPAT; UPAD	2009/11/09 10:35
8	BRS	L8	68	3 and 4 and 7	US-PGPUB; USPAT; UPAD	2009/11/09 10:37

	Туре	L #	Hits	Search Text	DBs	Time Stamp
9	BRS	L9	17699		USPAT;	2009/11/09 10:40
10	BRS	L10	8833	(alpha or acc or accelerate or accelerated or accelerating or acceleration or acceleration or accelerometer or inertial) near3 (min or minimum or low or lower or lowest or bottom or less or below or beneath or underneath) near3 (criteria or criterium or setpoint or point or level or threshold or limit or require or required or requiring or requirement or tolerance or qualify or qualified or qualifying or qualification or standard or bench or benchmark or baseline or base or reference)	US-PGPUB; USPAT; UPAD	2009/11/09 10:40

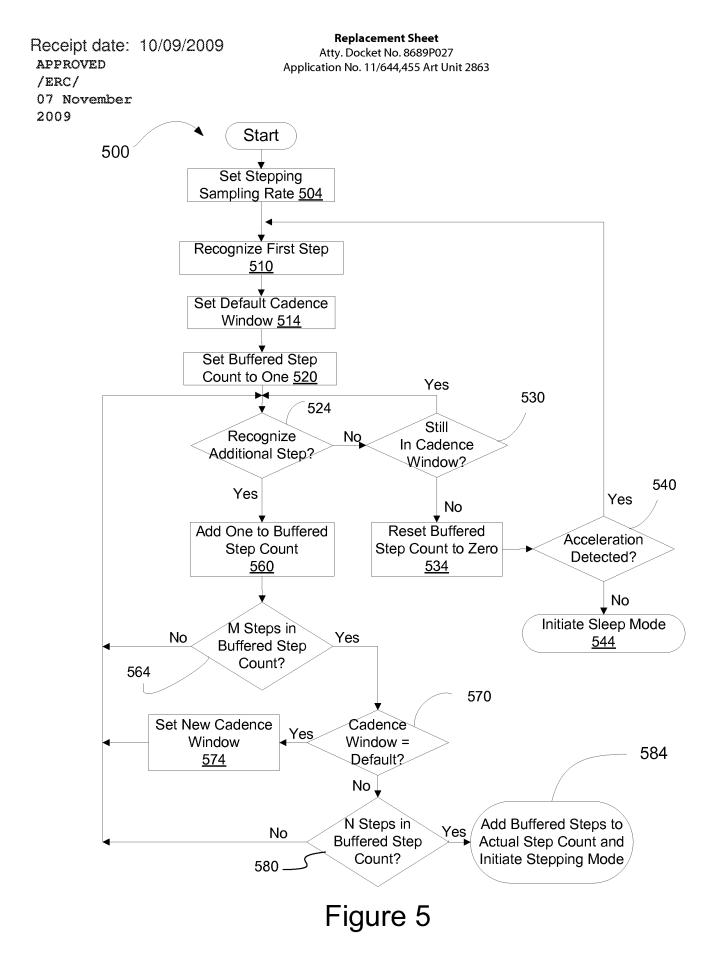
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11	BRS	L11	25901	(alpha or acc or accelerate or accelerated or accelerating or acceleration or accelerometer or inertial) near3 (tolerance or window or range or band)	ILISPAT :	2009/11/09 10:41
12	BRS	L12	5274	((9 nearl0 10) or 11) nearl0 ("with" or within or meet or met or meeting or "between")		2009/11/09 10:43
13	BRS	L13	360	12 same (5 or 6)		2009/11/09 10:43
14	BRS	L14	1/31154	(step or motion or human or run or running or walk or walking or cadence or stride) near3 (interval or period or time or snapshot or periodic or periodically or tolerance or window or range or band)	US-PGPUB; USPAT; UPAD	2009/11/09 10:45

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15	BRS	L15	435465	(5 or 6 or 14) near6 (replace or replaced or replacing or replacement or switch or switched or switching or change or changed or changing or alter or altered or altering or alteration or modify or modified or modifying or modification or correct or corrected or correcting or correction or compensate or compensated or compensating or compensation or calibrate or calibrated or calibrating or calibration or delta or adjust or adjusted or update or updated or updating or configure or configured or configure or reconfigured or reconfiguring or reconfiguration)	US-PGPUB; USPAT; UPAD	2009/11/09 10:45
16	BRS	L16	195	13 and 15	US-PGPUB; USPAT; UPAD	2009/11/09 10:46
17	BRS	L17	1646	<pre>(kahn\$1.in. adj2 (p.in. or philippe.in.)) or (kinsolving\$1.in. adj2 (a.in. or arthur.in.)) or (christensen\$1.in. adj2 (m.in. or mark.in.)) or (lee\$1.in. adj2 (b.in. or brian.in.)) or (vogel\$1.in. adj2 (d.in. or david.in.))</pre>	US-PGPUB; USPAT; UPAD	2009/11/09 10:47
18	BRS	L18	263	8 or 16 or ((8 or 16) and 17) Reviewed Ti, Ab, Kwic All	US-PGPUB; USPAT; UPAD	2009/11/09 10:49

Interference Search of L18 /ERC/ 09 November 2009

	Document ID	Publicati on Date	Inventor	Current OR	Current XRef	Page s
1	US 11644455 X1		Kahn; Philippe et al.			19
12 I	US 20030018430 A1	20030123	Ladetto, Quentin et al.	701/217	701/200	56
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L18 Results



	Application/Control No.	Applicant(s)/Patent Under Reexamination
Issue Classification	11644455	KAHN ET AL.
	Examiner	Art Unit
	Edward R Cosimano	2863

	ORIGINAL								INTERNATIONAL CLASSIFICATION						
	CLASS		:	SUBCLASS		CLAIMED						NON-CLAIMED			
702			160			G	0	1	В	21 / 02 (2006.01.01)					
	CE			6)		G	0	1	в	7 / 00 (2006.01.01)					
CROSS REFERENCE(S)							0	1	с	22 / 00 (2006.01.01)					
CLASS	CLASS SUBCLASS (ONE SUBCLASS PER BLOCK)				G	0	6	F	19 / 00 (2006.01.01)						
33	700					G	0	6	F	17 / 40 (2006.01.01)					
377	1	13	25	24.2											
702	1	127	155	158	187										
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NONE	Total Claims Allowed:						
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/Edward R Cosimano/ Primary Examiner.Art Unit 2863	11/09/2009	O.G. Print Claim(s)	O.G. Print Figure				
(Primary Examiner)	(Date)	1	1				

U.S. Patent and Trademark Office

Part of Paper No. 20091109

	Application/Control No.	Applicant(s)/Patent Under Reexamination
Search Notes	11644455	KAHN ET AL.
	Examiner	Art Unit
	Edward R Cosimano	2863

SEARCHED

Class	Subclass	Date	Examiner
33	700, 701	08/19/2009	ERC
73	1.01, 1.37, 1.38, 1.75, 1.76, 1.77, 1.78, 1.79, 1.81	08/19/2009	ERC
377	1, 13, 15, 17, 20, 24, 24.1, 24.2	08/19/2009	ERC
702	1, 85, 97, 127, 141, 150, 155, 158, 160, 187, 189	08/19/2009	ERC
Update	above	11/07/2009	ERC

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor name search; continuity check	08/16/2009	ERC
EAST (USOCR, USPAT, US-PGPUB, DERWENT, EPO, FPRS, JPO, IBM-TDB)	08/19/2009	ERC
Updated EAST search of 19 August 2009	11/07/2009	ERC

	INTERFERENCE SEARCH												
Class	Subclass	Date	Examiner										
33	700	11/09/2009	ERC										
377	1, 13, 24, 24.2	11/09/2009	ERC										
702	1, 127, 155, 158, 160, 187, 189	11/09/2009	ERC										

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Substitute	for Form 144	9/PTO			Complete	if Known
		ΣΝΛΛ	TION DISCLOSUR	F	Application Number	11/644,455
				L	Filing Date	December 22, 2006
	STAT	EME	ENT BY APPLICAN	Т	First Named Inventor:	Philippe Kahn, et al.
			many sheets as necessary)		Art Unit	2863
					Examiner Name	COSIMANO, EDWARD R.
Sheet	1		of	1	Attorney Docket Number	8689P027
			U.S. PATEN	IT DOCUMENTS	 }	
Examiner Initials*	Cite No. ¹	Numt	Document Number ber-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/F.C./		US-	5,446,775	8/25/1995	Wright et al.	
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7E.C./		US-	6,928,382	8/9/2005	Hong et al.	
/E.C./		US-	2003/0109258	6/12/2003	Mantyjarvi et al.	
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Examiner Signature /Edward Cosimano/	Date Considered	11/07/2009
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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 5415

SERIAL NUM 11/644,45		FILING or DAT 12/22/2 RUL	E 006		CLASS 702	GR	GROUP ART UNIT 2863		ΑΤΤΟ	DRNEY DOCKET NO. 8689P027
Philippe H Arthur Kir Mark Anc Brian Y. L David Vo ** CONTINUIN ** FOREIGN A	APPLICANTS Philippe Kahn, Aptos, CA; Arthur Kinsolving, Santa Cruz, CA; Mark Andrew Christensen, Santa Cruz, CA; Brian Y. Lee, Aptos, CA; David Vogel, Santa Cruz, CA; *** CONTINUING DATA **********************************									
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10	BRS	L10	2948	L9 near5 (alpha or acc or accelerate or accelerated or accelerating or acceleration or accelerometer or inertial)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11:44
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14	BRS	L14	804	L1 same (L9 or L10) same (L12 or L13 or step or motion or human or run or running or walk or walking or cadence or stride or pedometer or distance or length)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11:44
15	BRS	L15	50	L8 and L11 and L14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11:44

	Туре	ь#	Hits	Search Text	DBs	Time Stamp
16	BRS	L16	132247	(awake or wakeup or awoken or woken or waking or enable or enabled or enabling) nearl0 (sleep or asleep or idle or dormant or disable or disabled or disabling or "non-active" or nonactive or inactive or (("non" or "not" or "in") adj2 (activate or activated or activating or activation)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11:44
17	BRS	L17	845388	(step or motion or human or run or running or walk or walking or cadence or stride) near3 (interval or period or time or snapshot or periodic or periodically or tolerance or window or range or band)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11:44
18	BRS	L18	779	L16 same L17 same (L12 or L13)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11 : 44
19	BRS	L19	779	L16 and L18 and (L12 or L13)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11 : 44
20	BRS	L20	829	L15 or L19	US-PGPUB; USPAT; USOCB:	2009/11/07 11:44

	Туре	L #	Hits	Search Text	DBs	Time Stamp
21	BRS	L21	20889	or above or outside or exceed or exceeded or exceeding) near3 (criteria or criterium or setpoint or	JPO;	2009/11/07 11:44
22	BRS	L22	10288	(alpha or acc or accelerate or accelerated or accelerating or acceleration or acceleration or accelerometer or inertial) near3 (min or minimum or low or lower or lowest or bottom or less or below or beneath or underneath) near3 (criteria or criterium or setpoint or point or level or threshold or limit or require or required or requiring or requirement or tolerance or qualify or qualified or qualifying or qualification or standard or bench or benchmark or baseline or base or reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11:44

	Туре	L #	Hits	Search Text	DBs	Time Stamp
23	BRS	L23	98	L21 near10 L22 near10 ("with" or within or meet or met or meeting or "between")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11:44
24	BRS	L24	30323	(alpha or acc or accelerate or accelerated or accelerating or acceleration or accelerometer or inertial) near3 (tolerance or window or range or band)	USPAT;	2009/11/07 11 : 44
25	BRS	L25	5850	L24 near10 ("with" or within or meet or met or meeting or "between")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11:44
26	BRS	L26	407	(L23 or L25) same (L12 or L13)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11:44
27	BRS	L27	54711	(alpha or acc or accelerate or accelerated or accelerating or acceleration or accelerometer or inertial) near3 (history or historical or previous or prior or slope or trend or pattern or sequence or sequential or signature or trace or traced or tracing or trail or profile or profiled or profiling)	US-PGPUB; USPAT;	2009/11/07 11:44
28	BRS	L28	290	L17 near15 L27	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11 : 44

	Туре	L #	Hits	Search Text	DBs	Time Stamp
29	BRS	L29	102063	L17 near6 (replace or replaced or replacing or replacement or switch or switched or switching or change or changed or changing or alter or altered or altering or alteration or modify or modified or modifying or modification or correct or corrected or correcting or correction or compensate or compensated or compensation or compensation or calibrate or calibrated or calibrate or adjust or adjusted or adjust or adjustment or update or updated or updating or configure or configured or configure or reconfigured or reconfiguring or reconfiguration)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11:44
30	BRS	L30	107	L27 same L29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11:44
31	BRS	L31	2	L20 and (L26 or L28 or L30)	US-PGPUB; USPAT; USOCB:	2009/11/07 11:44

	Туре	L #	Hits	Search Text	DBs	Time Stamp
32	BRS	L32	1587	L15 or L20 or L26 or L28 or L30 or L31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11:44
33	BRS	L33	1516	73/1.76 or 73/1.77 or 73/1.78 or 73/1.79 or 73/1.81 or 377/1 or 377/13 or 377/15 or 377/17 or 377/20 or 377/24 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB Reviewed Ti All NO HITS	2009/11/07 11:50

Туре	L #	Hits	Search Text	DBs	Time Stamp
34 BRS	L34	91	<pre>("20090043531" or "4578769" or "5446725" or "5976083" or "6135951" or "6145389" or "6539336" or "6790178" or "6823036" or "6885971" or "6898550" or "6959259" or "7072789" or "7092846" or "7148797" or "7158912" or "7171331" or "7200517" or "7212943" or "7220220" or "20020109600" or "20020151810" or "20050240375" or "20050248718" or "20050248718" or "20060136173" or "6836744" or "6941239" or "7382611" or "20070063850" or "4285041" or "7387611" or "20070142715" or "6522266" or "6881191" or "20040225467" or "20050033200" or "5593431" or "5955667" or "6513381" or "6532419" or "6813582" or "2005022801" or "20060223547" or "5446775" or "6493652" or "6928382" or "20030109258").pn.</pre>	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	
35 BRS	L35	24864	<pre>(kahn\$1.in. adj2 (p.in. or philippe.in.)) or (kinsolving\$1.in. adj2 (a.in. or arthur.in.)) or (christensen\$1.in. adj2 (m.in. or mark.in.)) or (lee\$1.in. adj2 (b.in. or brian.in.)) or (vogel\$1.in. adj2 (d.in. or david.in.))</pre>	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/11/07 11:51
36 BRS	L36	6	L32 and (L34 or L35) Reviewed Ti, Ab, Kwic All	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM TDB	2009/11/07 11 : 51

Interference Search of L32, L33, & L26 /ERC/ 09 November 2009

	Document 1	ID	Publicati on Date	Inventor	Current OR	Current XRef	Page s
1	US 6145389 A	A	20001114	EBELING A et al.			14
2	US 6369794 I	B1	120020409	Sakurai; Yasuhiro et al.	345/156	379/433.04	37
3	US 200200894 Al	425	20020711	Kubo, Nobuo et al.	340/573.1	340/669	28
4	US 200300184 A1	430	20030123	Ladetto, Quentin et al.	701/217	701/200	56
5	US 6700499 I	В2	20040302	Kubo; Nobuo et al.		340/573.1; 340/573.7; 482/3; 482/74; 600/510; 600/552; 600/553; 73/379.01; 73/379.09	27
6	US 6826477 I	B2	20041130	Ladetto; Quentin et al.	701/217	340/944; 701/200; 701/213; 73/178R	58
7	US 200502323 A1	388	20051020	Tsuji, Tomoharu	377/24.2		10
8	US 20050238: Al	132	20051027	Tsuji, Tomoharu	377/24.2		10
9	US 7169084 B	B2	20070130	Tsuji; Tomoharu	482/8	482/1; 482/9; 702/160	9

L32 Results

	Document ID	Publicati on Date	Inventor	Current OR	Current XRef	Page s
10	US 20070067094 Al	20070322	Park; Kyong-Ha et al.	701/200	702/141	13
11	US 7297088 B2	20071120	Tsuji; Tomoharu		377/24.2; 482/8; 482/900; 702/160	10
12	US 7457719 B1	20081125	Kahn; Philippe et al.	702/141		16
13	US 20090043531 A1	20090212	Kahn; Philippe et al.	702/149		22

L32 Results

	Document ID	Publicati on Date	Inventor	Current OR	Current XRef	Page s
1	US 6145389 A	20001114	EBELING A et al.			14
2	US 7457719 B1	20081125	Kahn; Philippe et al.	702/141		16
3	US 20090043531 Al	20090212	Kahn; Philippe et al.	702/149		22

L36 Results

REQUEST FOR CONTINUED EXAMINATION (RCE) TRANSMITTAL						
Address to: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450						
Application No. 11/644,455 Filing Date December 22, 2006 First Named Inventor Philippe Kahn, et al.						
Art Unit 2863						
Attorney Docket No. 8689P027						
This is a Request for Continued Examination (RCE) under 37 C.F.R. § 1.114 of the above-identified application. Request for Continued Examination (RCE) practice under 37 CFR 1.114 does not apply to any utility or plant application filed prior to June 8, 1995, or to any design application. See instruction sheet for RCEs (not to be submitted to the USPTO) on page 2.						
 Submission required under 37 C.F.R. § 1.114 – Note: If the RCE is proper, any previously filed unentered amendments and amendments enclosed with the RCE will be entered in the order in which they were filed unless applicant instructs otherwise. If applicant does not wish to have any previously filed unentered amendment(s) entered, applicant must request non-entry of such amendment(s). 						
a. [] Previously submitted If a final Office action is outstanding, any amendments filed after the final Office action may be considered as a submission even if this box is not checked.						
 i. [] Consider the amendment(s)/reply under 37 C.F.R. § 1.116 previously filed on						
ii. [] Consider the arguments in the Appeal Brief or Reply Brief previously filed on						
iii. [] Other						
 b. [X] Enclosed i. [X] Amendment/Reply ii. [] Affidavit(s)/Declaration(s) iii. [X] Information Disclosure Statement (IDS) iv. [X] Other : Figure 5 - Replacement Drawing 						
 2. <u>Miscellaneous</u> a. [] Suspension of action on the above-identified application is requested under 37 C.F.R. § 1.103(c) for a period of months.(Period of suspension shall not exceed 3 months. Fee under 37 C.F.R. § 1.17(i) required b. [] Other 						
 Fees The RCE fee under 37 C.F.R. § 1.17(e) is required by C.F.R. § 1.114 when the RCE is filed. a. [X] The Director is hereby authorized to charge the following fees, or credit any overpayments, to Deposit Account No. <u>02-2666</u> 						
i. [X] RCE fee required under 37 C.F.R. § 1.17(e)						
 ii. [] Extension of time fee (37 C.F.R. §§ 1.136 and 1.17) iii. [] Processing fee under 37 CFR § 1.17(i) for Limited Suspension of Action iv. [] Other						
b. [] Check in the amount of \$ enclosed c. [] Payment by credit card (Form PTO-2038 enclosed) WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT REQUIRED						
Name (Print/Type) Benjamin A. Kimes Registration No. (Attorney/Agent) 50,870						
Signature /Benjamin A. Kimes/ Date October 9, 2009						
CERTIFICATE OF MAILING OR TRANSMISSION						
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Mail Stop RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on the date shown below:						
Name (Print/Type) Betty Scaletta						
Signature /Betty Scaletta/ Date October 9, 2009						
Express Mail No. (only if applicable):						

Based on Form PTO/SB/30 (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03

Attorney's Docket No.: 8689P027

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit:

In re Application of:

Philippe Kahn, et al.

Application No.: 11/644,455

Examiner: COSIMANO, EDWARD R.

2863

Confirmation No.: 5415

Filed: December 22, 2006

For: HUMAN ACTIVITY MONITORING DEVICE

Mail Stop RCE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

AMENDMENT AND RESPONSE TO EX PARTE QUAYLE ACTION

Dear Sir:

In response to the Ex parte Quayle Action dated August 31, 2009 please enter this Amendment and consider the following remarks.

Amendments to the specification begin on page 2 of this document.

Amendments to the drawings begin on page 5 of this document.

Remarks begin on page 6 of this document.

CERTIFICATE OF ELECTRONIC FILING

I hereby certify that this correspondence is being deposited with the United States Patent and Trademark Office via electronic filing through the United States Patent and Trademark Electronic Filing System on:

October 9, 2009

Date of Deposit Betty Scaletta

Name of Person Filing Correspondence

/Betty Scaletta/

Signature

10-09-2009 Date

Application No.: 11/644,455

Attorney Docket No.: 8689P027

IN THE SPECIFICATION

Please amend the specification to replace originally filed paragraphs [0020], [0024], [0028] and [0039] with replacement paragraphs, as indicated below. The following amendments do not add any new matter to the specification of the present application.

[0020] Filtered measurement data may be passed on to the dominant axis logic 127 and the step counting logic 130. In one embodiment, the dominant axis logic 127 includes a cadence logic 132, a rolling average logic 135, and a dominant axis setting logic 140. In an alternative embodiment, more or fewer logics may be used to determine a dominant axis. One embodiment of implementing dominant axis assignment may be found in co-pending application U.S. Serial No. XXX, which is incorporated herein by reference. Alternative means of identifying a dominant axis may be used in other embodiments.

[0024] Figure 2 illustrates an exemplary motion cycle graph [[201]]<u>200</u> that measures time versus acceleration, in accordance with one embodiment of the present invention. The exemplary motion-cycle graph [[201]]<u>200</u> shows acceleration data taken with a single tri-axis inertial senor. The acceleration at a given period of time is represented for a first axis 203 of an inertial sensor(s), a second axis 205 of the inertial sensor(s), and a third axis 207 of the inertial sensor(s). In one embodiment, the cadence logic [[135]]<u>132</u> of Figure 1 analyzes the acceleration along the first axis 203, second axis 205 and third axis 207 to detect a motion cycle. Once a motion cycle is detected, a period of the motion cycle is determined, and a cadence of the motion cycle is determined. Figure 2 shows an exemplary period of a motion cycle [[210]]<u>215</u> for the third axis 207, the period being approximately 0.6 seconds. The same period can also be seen to a lesser degree in the second axis 205 and the first axis 203. The corresponding cadence to the motion cycle is approximately one hundred motion cycles per minute.

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[0028] Returning to Figure 2, cadence windows may be used to count steps until an expected step is not encountered. In one embodiment, new cadence windows are determined periodically. In one embodiment, the cadence window is a dynamic cadence window that continuously updates as a user's cadence changes. For example, using a dynamic cadence window, a new cadence window length may be set after each step. [[(.]] The cadence window minimums may be determined by subtracting a value from the stepping period, and the cadence window maximums may be determined by adding a value to the stepping period. In one embodiment, the cadence window maximums are preset, and the cadence window minimums are updated after each step is counted. In one embodiment, the cadence window minimums are preset, and the cadence window maximums are updated after each step is counted. In one embodiment, both the cadence window minimums and cadence window maximums are updated when a step is counted. In one embodiment, the current cadence window minimum is determined by subtracting 200 ms from the current stepping cadence period. In one embodiment, the cadence window minimum has a minimum value of 240 ms.

[0039] Returning to **Figure 1**, the step counting logic 130 may include a measurement selection logic 145, a cadence window 150, a measurement comparator 155, a threshold comparator 160, a step count buffer 165, and a mode logic 190. The measurement selection logic 145 may determine which measurements from the measurement buffer [[125]] to use to determine if a step has occurred. In one embodiment, the measurement selection logic 145 may monitor accelerations relative to the dominant axis, and select only those measurements with specific relations to the dominant axis for measurement. For example, only accelerations that are approximately parallel to the dominant axis may be selected, or alternatively, only accelerations that are approximately perpendicular to the dominant axis

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Attorney Docket No.: 8689P027

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may be selected. In one embodiment, the measurement selection logic 145 selects only measurements of acceleration data along the dominant axis. In alternative embodiments, measurements of acceleration data along other axes may also be used. In one embodiment, measurements of acceleration along only the other axes are used.

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IN THE DRAWINGS

Please replace the as filed Figure 5 with the attached replacement Figure 5.

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REMARKS

Applicants respectfully request consideration of the subject application as amended herein. This Amendment is submitted in response to the *Ex Parte Quayle* Action mailed on August 31, 2009. Claims 1-20 are in condition for allowance except for formal matters. In this Amendment, no claims have been amended, added, or canceled. This amendment includes replacement paragraphs for the detailed description, as well as a replacement drawing. The replacement paragraphs and replacement drawing do not add any new matter to the specification of the present application.

Drawings Objections – 37 CFR 1.84(p)(4,5)

The Examiner has objected to the drawings under 37 CFR 1.83(p)(4,5) because of duplicate and improper use of some reference legends. The detailed description has been amended to refer to appropriate reference legends, as suggested by the Examiner.

The Examiner has also objected to Figure 5 for confusing placement of the descriptor "YES" associated with block 524. Corrected drawing sheets in compliance with 37 CFR 1.121(d) are being submitted with this response showing a new placement for the descriptor.

Accordingly, Applicants respectfully request that the objections to the drawings be withdrawn.

Disclosure Objections

The specification of the present application is objected to because of minor errors and/or inconsistencies between the drawings and the written description. Paragraphs [0024], [0028] and [0039] have been amended to correct these minor errors and inconsistencies, as suggested by the Examiner. The specification is further objected to for including an incorporation by reference to an unidentified application. Paragraph [0020] has been amended to remove this informality.

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Attorney Docket No.: 8689P027

Accordingly, Applicants respectfully request that the objections to the disclosure be withdrawn.

Comments on Reasons for Allowance

Applicants thank Examiner for allowing claims 1-20.

Conclusion

Applicants respectfully request the withdrawal of the objections and submit that all formal matters addressed by the Examiner have been corrected.

Deposit Account Authorization

Authorization is hereby given to charge our Deposit Account No. 02-2666 for any charges that may be due. Furthermore, if an extension is required, then Applicant hereby requests such extension.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

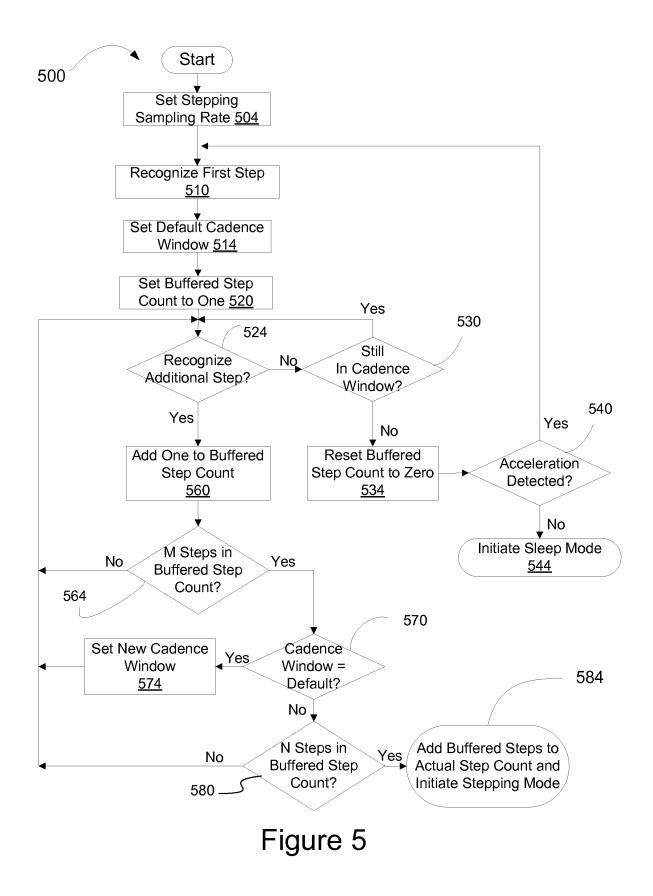
Dated: October 9, 2009

/Benjamin A. Kimes/ Benjamin A. Kimes Registration No. 50,870

1279 Oakmead Parkway Sunnyvale, CA 94085-4040 (408) 720-8300

Application No.: 11/644,455

Replacement Sheet Atty. Docket No. 8689P027 Application No. 11/644,455 Art Unit 2863



Attorney's Docket No. 8689P027

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Philippe Kahn, et al.

Application No.: 11/644,455

Filed: December 22, 2006

For: HUMAN ACTIVITY MONITORING DEVICE

Examiner: COSIMANO, EDWARD R.

Art Unit: 2863

Confirmation No.: 5415

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

I hereby certify that this correspondence is being de	<u>E OF ELECTRONIC F</u>	
electronic filing through the United States Patent an October 9, 2009 Date of Deposit Betty Scaletta	1	
Name of Person Mailing Correspondence		
/Betty Scaletta/ Signature	10-09-2009 Date	
Application No.: 11/644,455	- 1 -	Atty. Docket No.: 8689P027

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Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure

Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

<u>X</u> 37 C.F.R. §1.97(b).

 37 C.F.R. §1.97(c). If so, then enclosed with this Information
Disclosure Statement is one of the following:

- A statement pursuant to 37 C.F.R. §1.97(e) or
- The Director is Authorized to charge our Deposit Acct. No. 02-2666 in the amount of \$180.00 for the fee under 37 C.F.R. § 1.17(p).
- _____ 37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:
 - (1) A statement pursuant to 37 C.F.R. §1.97(e); and
 - (2) Authorization to charge our Deposit Acct. No. 02-2666 in the amount of \$<u>180.00</u> for the fee under 37 C.F.R. \$1.17(p) for submission of the Information Disclosure Statement.

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: October 9, 2009

/Benjamin A. Kimes/ Benjamin A. Kimes Reg. No. 50,870

1279 Oakmead Parkway Sunnyvale, CA 94085-4040 (408) 720-8300

Application No.: 11/644,455

- 2 -

Atty. Docket No.: 8689P027

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Substitute for Form 1449/PTO					Complete	if Known		
		N N N	TION DISCLOSUR	C	Application Number	11/644,455		
			TION DISCLOSUR	Filing Date	December 22, 2006			
	STATE	EME	ENT BY APPLICAN	First Named Inventor:	Philippe Kahn, et al.			
		(use as	s many sheets as necessary)		Art Unit	2863		
					Examiner Name	COSIMANO, EDWARD R.		
Sheet	1		of	1	Attorney Docket Number	8689P027		
	U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Num	Document Number ber-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		US-	5,446,775	8/25/1995	Wright et al.			
		US-	6,493,652	12/10/2002	Ohlenbusch et al.			
		US-	6,928,382	8/9/2005	Hong et al.			
		US-	2003/0109258	6/12/2003	Mantyjarvi et al.			
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	FOREIGN PATENT DOCUMENTS											
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶						

Examiner	Date Considered	
Signature		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Based on Form PTO/SB/08A (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03.

Electronic Patent Application Fee Transmittal						
Application Number:	11644455					
Filing Date:	22-	22-Dec-2006				
Title of Invention:	Human activity monitoring device					
First Named Inventor/Applicant Name:	Phi	lippe Kahn				
Filer:	Bei	njamin Kimes/Betty	Scaletta			
Attorney Docket Number:	868	39P027				
Filed as Large Entity						
Utility under 35 USC 111(a) Filing Fees						
Description		Fee Code	Quantity	Amount	Sub-Total in USD(\$)	
Basic Filing:						
Pages:						
Claims:						
Miscellaneous-Filing:						
Petition:						
Patent-Appeals-and-Interference:						
Post-Allowance-and-Post-Issuance:						
Extension-of-Time:						

Description	Fee Code	Quantity	Amount	Sub-Total in USD(\$)
Miscellaneous:				
Request for continued examination	1801	1	810	810
	Total in USD (\$)		810	

Electronic Acknowledgement Receipt				
EFS ID:	6239441			
Application Number:	11644455			
International Application Number:				
Confirmation Number:	5415			
Title of Invention:	Human activity monitoring device			
First Named Inventor/Applicant Name:	Philippe Kahn			
Customer Number:	08791			
Filer:	Benjamin Kimes/Betty Scaletta			
Filer Authorized By:	Benjamin Kimes			
Attorney Docket Number:	8689P027			
Receipt Date:	09-OCT-2009			
Filing Date:	22-DEC-2006			
Time Stamp:	20:00:17			
Application Type:	Utility under 35 USC 111(a)			

Payment information:

Submitted with Payment yes				
Payment Type	Deposit Account			
Payment was successfully received in RAM	\$810			
AM confirmation Number 5553				
Deposit Account	022666			
Authorized User				
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:				
Charge any Additional Fees required under 37 C.F.R. Section 1.16 (National application filing, search, and examination fees)				
Charge any Additional Fees required under 37 C.F.R. Section 1.17 (Patent application and reexamination processing fees)				

Charge any Additional Fees required under 37 C.F.R. Section 1.19 (Document supply fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.20 (Post Issuance fees)

Charge any Additional Fees required under 37 C.F.R. Section 1.21 (Miscellaneous fees and charges)

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.
1	Request for Continued Examination (RCE)	8689P027_RCE_10-09-09.pdf	20888	no	1
			64dfd3d0a9902becee9133602044e68f38e 786dc		
Warnings:					
	'TO supplied RCE SB30 form.				
Information:					
2		8689P027_R-	49864	yes	7
2		Ex_parte_Quayle_10-09-09.pdf	004c196f2d18af2913ee0f541d55cc5d4306 5ba7	yes	/
	Multip	art Description/PDF files in .	zip description	I	
	Document Des	scription	Start	E	nd
	Response after Ex Part	Response after Ex Parte Quayle Action		1	
	Specificat	Specification		5	
	Applicant Arguments/Remarks Made in an Amendment		6	7	
Warnings:					
Information:					
3	Drawings-only black and white line	8689P027_Replacement_Figur	506295	no	1
5	⁵ drawings e_5_10-09-09.pdf		f0acbda5a13126bf6a89557dbea6792954d d859d	110	I
Warnings:					
Information:					
4	Transmittal Letter 8689P027_IDS_LTF pdf	8689P027_IDS_LTR_10-09-09.	19441		2
4		pdf	64cb4021c8f754bf679773b51920ec69f50a 6f9f	no 2	
Warnings:				I	
Information:					
5	Information Disclosure Statement (IDS)	8689P027_IDS_SB08_10-09-09.	55296	no	1
	Filed (SB/08)	pdf	ebcc3036cd0ba9b8e599ad762fe9bc936f67 80d7	10	
Warnings:					

6	Fee Worksheet (PTO-875)	fee-info.pdf	29973 63da5a43dc099d779ab0376325f9270aac3 6cdab	no	2		
Warnings:		l					
Information	:						
		Total Files Size (in bytes)	: 68	31757			
This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503. New Applications Under 35 U.S.C. 111 If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application. National Stage of an International Application under 35 U.S.C. 371 If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course. New International Application Filed with the USPTO as a Receiving Office If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number							

	ED STATES PATENT	and Trademark Office	UNITED STATES DEPAR United States Patent and Address: COMMISSIONER I P.O. Box 1450 Alexandria, Virginia 22 www.uspto.gov	FOR PATENTS	
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
11/644,455	12/22/2006	Philippe Kahn	8689P027	5415	
8791 7590 08/31/2009 BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP 1279 OAKMEAD PARKWAY			EXAMINER		
			COSIMANO, EDWARD R		
SUNNYVALE, CA 94085-4040		ART UNIT	PAPER NUMBER		
			2863		
			MAIL DATE	DELIVERY MODE	
			08/31/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

	Application No.	Applicant(s)		
Office Action Summer	11/644,455	KAHN ET AL.		
Office Action Summary	Examiner	Art Unit		
	Edward R. Cosimano	2863		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
 A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>2</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 				
Status				
1) Responsive to communication(s) filed on <u>22 De</u>	ecember 2006.			
2a) This action is FINAL . 2b) This	action is non-final.			
3) Since this application is in condition for allowar	nce except for formal matters, pro	psecution as to the merits is		
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.		
Disposition of Claims				
 4) Claim(s) <u>1-20</u> is/are pending in the application. 4a) Of the above claim(s) <u>none</u> is/are withdrawing 				
5) Claim(s) $1-20$ is/are allowed.	Thom consideration.			
6) Claim(s) <u></u> is/are anowed.				
7) Claim(s) is/are objected to.	- ala atiana na muina na ant			
8) Claim(s) are subject to restriction and/or	r election requirement.			
Application Papers				
9) The specification is objected to by the Examine	r.			
10)⊠ The drawing(s) filed on <u>22 December 2006</u> is/a	re: a) <mark>∏</mark> accepted or b)⊠ object	ed to by the Examiner.		
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).		
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).		
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).		
a) All b) Some * c) None of:				
1. Certified copies of the priority documents	s have been received.			
2. Certified copies of the priority documents	s have been received in Applicati	on No		
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage		
application from the International Bureau	ı (PCT Rule 17.2(a)).			
* See the attached detailed Office action for a list of the certified copies not received.				
Attachment/s)				
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO_413)		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da			
3) X Information Disclosure Statement(s) (PTO/SB/08)	5) 🔲 Notice of Informal F	atent Application		
Paper No(s)/Mail Date <u>See Continuation Sheet</u> .	6) 🚺 Other:			
U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06) Office Ac	tion Summary Pa	rt of Paper No./Mail Date 20090822		

Continuation Sheet (PTOL-326)

Continuation of Attachment(s) 3). Information Disclosure Statement(s) (PTO/SB/08), Paper No(s)/Mail Date :8/13/07; 12/3/08; 12/11/08; 1/16/09; 6/26/09; 8/14/09.

1. When preparing this Office action the examiner considers the instant application to include:

A) the Oath/Declaration filed on 02 April 2007 which is acceptable to the examiner;

B) the Abstract filed on 22 December 2006 which is acceptable to the examiner;

C) figures 1, 2, 3, 4, 5, 6, 7, 8 & 9 of the set of drawings containing 9 sheets of 9 figures comprising figures 1, 2, 3, 4, 5, 6, 7, 8 & 9 as presented in the set of drawings filed on 22 December 2006 where the content of figures 1, 3, 4, 6, 7, 8 & 9 of the above set of drawings is acceptable to the examiner;

D) the written description as filed on 22 December 2006; and

E) the set of claims as filed on 22 December 2006.

2. The drawings filed on 22 December 2006 are objected to because:

A) applicant's references to: (1) either a "motion cycle graph 210" or a "first axis 203" or a "first axis 205" or a "first axis 207" or as "cadence logic 135" in paragraph number 24, and (2) a "measurement buffer 125" in paragraph number 39; are confusing as well as an improper duplicate use of reference legends 135 & 210. These uses of reference legends are confusing and improper, because as can be seen in figures 1 & 2 and from the context of the written description, it is noted that the drawings lack a feature of the invention that one of ordinary skill at the time the invention was made would fairly and reasonably recognize as has been designated as "motion cycle graph 210" or as "first axis 203" or as "first axis 205" or as "first axis 207" or as "cadence logic 135", as required by 37 CFR 1.84(p(4,5)), and as can be seen in figure 2 and from the context of the written description figure 2 does include an feature of the invention that has been designated by reference legend 215 but which has not been mentioned in the written description as required by 37 CFR 1.84(p(4,5)). In this regard it is noted that as can be seen in figure 1 and/or figure 2 as well as from the context of the written description in at least paragraph number 20, 22, 24, 25, 33, 34, 35, 37, 39 & 84, applicant has:

(1) used reference number 132 in order to designate the feature of the invention entitled as "Cadence Logic 132" in figure 1;

(2) used reference number 135 in order to designate the feature of the invention entitled as "Rolling Average Logic 135" in figure 1;

(3) applicant has used reference number 200 in order to designate the feature of the invention that has been depicted as a graph in figure 2;

(4) applicant has used reference number 203 in order to designate the feature of the invention that has been depicted as a plot of a measured acceleration verses time in graph 200 of figure 2;

(5) applicant has used reference number 205 in order to designate the feature of the invention that has been depicted as a plot of a measured acceleration verses time in graph 200 of figure 2;

(6) applicant has used reference number 207 in order to designate the feature of the invention that has been depicted as a plot of a measured acceleration verses time in graph 200 of figure 2;

(7) applicant has not used reference number 210 in order to designate any of the features of the invention that have been depicted as part of graph 200 of figure 2;

(8) applicant has not used reference numbers 203, 205 & 207 in order to designate any of the features of the invention that one of ordinary skill at the time the invention was made would fairly and reasonably recognize as having been depicted as an "axis" in graph 200 of figure 2;

(9) applicant has used reference legend 215 in figure 2 in order to designate what appears to be an "motion cycle" in graph 200 of figure 2; and

(10) applicant has not used reference number 125 in order to designate any of the features of the invention depicted in figure 1;

and applicant should note the corresponding objections to the written description below.

B) applicant's placement of the "YES" legend for decision block 524 in figure 5 in view of the context of the written description in paragraph number 65 is confusing. It is noted that this legend should be placed closer to the flow path from block 524 to block 560.

2.1 Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

3. The disclosure is objected to because of the following informalities:

A) applicant must update the application data with the current status of each reference application, note the unidentified application in paragraph number 20. In this regard applicant should note that because applicant has filed to clearly and explicitly identify the referenced application, by for example title, filing date, attorney docket number, then this requirement and the incorporation of the unidentified application may constitute new matter and hence NO NEW MATTER should be entered.

B) the following errors and/or inconsistencies between the drawings filed on 22 December 2006 and the written description have been noted:

(1) applicant's references to: (1a) either a "motion cycle graph 210" or a "first axis 203" or a "first axis 205" or a "first axis 207" or as "cadence logic 135" in paragraph number 24, and (1b) a "measurement buffer 125" in paragraph number 39; are confusing as well as an improper duplicate use of reference legends 135 & 210. These uses of reference legends are confusing and improper, because as can be seen in figures 1 & 2 and from the context of the written description, it is noted that the drawings lack a feature of the invention that one of ordinary skill at the time the invention was made would fairly and reasonably

recognize as has been designated as "motion cycle graph 210" or as "first axis 203" or as "first axis 205" or as "first axis 207" or as "cadence logic 135", as required by 37 CFR 1.84(p(4,5)), and as can be seen in figure 2 and from the context of the written description figure 2 does include an feature of the invention that has been designated by reference legend 215 but which has not been mentioned in the written description as required by 37 CFR 1.84(p(4,5)). In this regard it is noted that as can be seen in figure 1 and/or figure 2 as well as from the context of the written description in at least paragraph numbers 20, 22, 24, 25, 33, 34, 35, 37, 39 & 84, applicant has:

(a) used reference number 132 in order to designate the feature of the invention entitled as "Cadence Logic 132" in figure 1;

(b) used reference number 135 in order to designate the feature of the invention entitled as "Rolling Average Logic 135" in figure 1;

(c) applicant has used reference number 200 in order to designate the feature of the invention that has been depicted as a graph in figure 2;

(d) applicant has used reference number 203 in order to designate the feature of the invention that has been depicted as a plot of a measured acceleration verses time in graph 200 of figure 2;

(e) applicant has used reference number 205 in order to designate the feature of the invention that has been depicted as a plot of a measured acceleration verses time in graph 200 of figure 2;

(f) applicant has used reference number 207 in order to designate the feature of the invention that has been depicted as a plot of a measured acceleration verses time in graph 200 of figure 2;

(g) applicant has not used reference number 210 in order to designate any of the features of the invention that have been depicted as part of graph 200 in figure 2;

(h) applicant has not used reference numbers 203, 205 & 207 in order to designate any of the features of the invention that one of ordinary

skill at the time the invention was made would fairly and reasonably recognize as having been depicted as an "axis" in graph 200 of figure 2;

(i) applicant has used reference legend 215 in figure 2 in order to designate what appears to be a "motion cycle" in graph 200 of figure 2;

(j) applicant has not used reference number 125 in order to designate any of the features of the invention depicted in figure 1.

In view of the above, it is noted that in paragraph numbers 24 & 39 the references to:

(a) "motion cycle graph 210" should be to -motion cycle graph 200--;

(b) "cadence logic 135" should be to --cadence logic 132--;

(c) "first axis 203" (first occurrence) should be to –first axis 203 of an inertial sensor(s)--;

(d) "second axis 205" (first occurrence) should be to –second axis 205 of the inertial sensor(s)--;

(e) "third axis 207" (first occurrence) should be to -third axis 207 of the inertial sensor(s)--;

(f) the reference to "motion cycle 210" should be to –motion cycle 215--; and

(g) the reference to "measurement buffer 125" should be to a – measurement buffer--;

and applicant should note the proposed amendments below.

C) applicant use of the symbol "(.", as found in paragraph number 28 is unclear and confusing and therefore should be deleted as suggested in the proposed amendment to paragraph number 28 below.

D) in view of the above objections it is suggested that the following paragraphs be amended as indicated:

(1) at paragraph number 24:

[0024] Figure 2 illustrates an exemplary motion cycle graph [[201]] <u>200</u> that measures time versus acceleration, in accordance with one embodiment of the present

invention. The exemplary motion-cycle graph [[201]] <u>200</u> shows acceleration data taken with a single tri-axis inertial senor. The acceleration at a given period of time is represented for a first axis 203 <u>of an inertial sensor(s)</u>, a second axis 205 <u>of the inertial sensor(s)</u>, and a third axis 207 <u>of the inertial sensor(s)</u>. In one embodiment, the cadence logic [[135]] <u>132</u> of Figure 1 analyzes the acceleration along the first axis 203, second axis 205 and third axis 207 to detect a motion cycle. Once a motion cycle is detected, a period of the motion cycle is determined, and a cadence of the motion cycle is determined. Figure 2 shows an exemplary period of a motion cycle [[201]] <u>215</u> for the third axis 207, the period being approximately 0.6 seconds. The same period can also be seen to a lesser degree in the second axis 205 and the first axis 203. The corresponding cadence to the motion cycle is approximately one hundred motion cycles per minute.

(2) at paragraph number 28:

[0028] Returning to Figure 2, cadence windows may be used to count steps until an expected step is not encountered. In one embodiment, new cadence windows are determined periodically. In one embodiment, the cadence window is a dynamic cadence window that continuously updates as a user's cadence changes. For example, using a dynamic cadence window, a new cadence window length may be set after each step. [[(.]] The cadence window minimums may be determined by subtracting a value from the stepping period, and the cadence window maximums may be determined by adding a value to the stepping period. In one embodiment, the cadence window maximums are preset, and the cadence window minimums are updated after each step is counted. In one embodiment, the cadence window minimums are preset, and the cadence window maximums are updated after each step is counted. In one embodiment, both the cadence window minimums and cadence window maximums are updated when a step is counted. In one embodiment, the current cadence window minimum is determined by subtracting 200 ms from the current stepping cadence period. In one embodiment, the cadence window minimum has a minimum value of 240 ms.

(3) at paragraph number 39:

[0039] Returning to Figure 1, the step counting logic 130 may include a measurement selection logic 145, a cadence window 150, a measurement comparator

155, a threshold comparator 160, a step count buffer 165, and a mode logic 190. The measurement selection logic 145 may determine which measurements from the measurement buffer [[125]] to use to determine if a step has occurred. In one embodiment, the measurement selection logic 145 may monitor accelerations relative to the dominant axis, and select only those measurements with specific relations to the dominant axis for measurement. For example, only accelerations that are approximately parallel to the dominant axis may be selected, or alternatively, only accelerations that are approximately perpendicular to the dominant axis may be selected. In one embodiment, the measurement selection logic 145 selects only measurements of acceleration data along the dominant axis. In alternative embodiment, measurements of acceleration data along other axes may also be used. In one embodiment, measurements of acceleration along only the other axes are used.

3.1 Appropriate correction is required.

4. This application is in condition for allowance except for the following formal matters:A) see the above objections as set forth above in sections 2 & 3.

4.1 Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

4.2 A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

5. The following is a statement of reasons for the indication of allowable subject matter:

A) the prior art, for example:

(1) Ebeling et al (6,145,389) discloses a machine/process that provides the useful and beneficial function of pedometer in which the time variation of a measured acceleration, representing the steps or stride of an user, is evaluated or analyzed in order to determine if the user is running or walking. Further, the evaluation or analysis of the measured acceleration is used in order to more accurately determine a count of the user's steps or strides and to determine an accurate determination of the user's step or stride distance. Then based on the determinations of whether the user is running or walking, the step or stride count,

and the distance traveled during one step or stride, the total distance traveled by the user may be determined.

(2) either Sakuria et al (6,369,794) or Kubo et al (2002/0089425 or 6,700,499) or Ladetto et al (2003/0018430 or 6,826,477) disclose a machine/process that provides the useful and beneficial function of determining an user's action or motion in which the time variation of a measured acceleration, representing the user's action or motion, is evaluated or analyzed in order to determine the user's action or motion.

(3) either Tsuji (2005/0232388 or 2005/0238132 or 7,169,084 or 7,297,088) or Park et al (2007/0067094) disclose a machine/process that provides the useful and beneficial function of pedometer in which the time variation of a measured acceleration, representing the steps or stride of an user, is evaluated or analyzed in order to determine if the user is running or walking. Further, the evaluation or analysis of the measured acceleration with in a time window of an expected period or interval representing a cadence or step interval or period is used in order to more accurately determine a count of the user's steps or strides. Then based on the determined.

B) however, the prior art does not fairly teach or suggest in regard to claims 1 & 11 a process in claim 1 and a machine in claim 11 that provides the useful and beneficial function of monitoring human activity by providing actions in claim 1 and structures in claim 11 that perform at least the functions of:

(1) continuously determining the orientation of an inertial sensor;

(2) assigning a dominate axis for the inertial axis;

(3) updating the dominate axis for the inertial axis as the orientation of the inertial sensor changes; and

(4) counting periodic human activity by using the inertial sensor to monitor accelerations relative to the dominate axis of the inertial sensor.

Claims 2-5, which depend from claim 1, and claims 12-14, which depend from claim 11, are allowable over the prior art for the same reason.

C) however, the prior art does not fairly teach or suggest in regard to claims 6 & 15 a process in claim 6 and a machine in claim 15 that provides the useful and beneficial function of monitoring human activity by providing actions in claim 6 and structures in claim 15 that perform at least the functions of:

(1) operating a device, including an inertial sensor, in a non-active mode to buffer human motions;

(2) operating the device with the inertial sensor, in an active mode after a predetermined number of human motions have been detected with in an appropriate cadence window; and

(3) monitoring human activity by counting each periodic human activity while operating the device with the inertial sensor, in the active mode.

Claims 7-10, which depend from claim 6, and claims 16-20, which depend from claim 15, are allowable over the prior art for the same reason.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward R. Cosimano whose telephone number is 571-272-0571. The examiner can normally be reached on 571-272-0571 from 7:30am to 4:00pm (Eastern Time).

6.1 If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn, can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 11/644,455 Art Unit: 2863

6.2 Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ERC 08/22/2009

> /Edward Cosimano/ Primary Examiner Unit 2863

Notice of References Cited	Application/Control No. 11/644,455	Applicant(s)/Pater Reexamination KAHN ET AL.	nt Under
	Examiner	Art Unit	
	Edward R. Cosimano	2863	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	А	US-6,369,794	04-2002	Sakurai et al.	345/156
*	в	US-2002/0089425	07-2002	Kubo et al.	340/573.1
*	С	US-2003/0018430	01-2003	Ladetto et al.	701/217
*	D	US-6,700,499	03-2004	Kubo et al.	340/686.1
*	Е	US-6,826,477	11-2004	Ladetto et al.	701/217
*	F	US-2005/0232388	10-2005	Tsuji, Tomoharu	377/024.2
*	G	US-2005/0238132	10-2005	Tsuji, Tomoharu	377/024.2
*	Н	US-7,169,084	01-2007	Tsuji, Tomoharu	482/8
*	Ι	US-2007/0067094	03-2007	Park et al.	701/200
*	J	US-7,297,088	11-2007	Tsuji, Tomoharu	482/3
*	к	US-7,457,719	11-2008	Kahn et al.	702/141
*	L	US-2009/0043531	02-2009	Kahn et al.	702/149
	М	US-			

FOREIGN PATENT DOCUMENTS Document Number Date * Country Name Classification Country Code-Number-Kind Code MM-YYYY Ν 0 Ρ Q R s т

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
		include as applicable. Author, fille Date, Fublisher, Edition of Volume, Fertiment Fages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

U.S. Patent and Trademark Office PTO-892 (Rev. 01-2001)

Notice of References Cited

Part of Paper No. 20090822



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BIB DATA SHEET

CONFIRMATION NO. 5415

SERIAL NUM 11/644,45		FILING or DAT 12/22/2 RUL	E 006		CLASS 702	GR	GROUP ART UNIT 2863		ΑΤΤΟ	DRNEY DOCKET NO. 8689P027
Arthur Kir Mark Anc Brian Y. I David Vo ** CONTINUIN ** FOREIGN A	APPLICANTS Philippe Kahn, Aptos, CA; Arthur Kinsolving, Santa Cruz, CA; Mark Andrew Christensen, Santa Cruz, CA; Brian Y. Lee, Aptos, CA; David Vogel, Santa Cruz, CA; *** CONTINUING DATA **********************************									
01/27/200)7 [′]				_					
Foreign Priority claime 35 USC 119(a-d) cond		Yes No	Met af Allowa	ter	STATE OR COUNTRY		HEETS WINGS	TOT. CLAII		INDEPENDENT CLAIMS
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1330 No for following:										
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BIB (Rev. 05/07).

	Туре	ь#	Hits	Search Text	DBs	Time Stamp
1			198169	(alpha or acc or accelerate or accelerated or accelerating or acceleration or accelerometer or inertial) near3 (measure or measurement or measuring or measurement or monitor or monitored or monitoring or detect or detected or detecting or detection or detecter or detector or sense or sensed or sensing or sensor or senser or sensible or transduce or transduced or transducing or transducer or sample or sampled or sampling or sampler or determination or determining or determing or gauge or gauged or gauging or gage or gaged or gauging or acquire or acquisition or acquisition ing or acquirer or acquiror or collect or collected or log or logged or logging or logger)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:32
2	BRS	L2	6138	(1 or accelerometer or inertial) near5 (orientate or orientated or orientating or orientation or align or aligned or aligning or alignment)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:32
3	BRS	L3	26641	(1 or accelerometer or inertial) near5 (direct or directed or directing or direction of coordinate or "co-ordinate" or (co adj2 ordinate) or cartesian or polar or 3d or linear or ("3" near2 (dimension or dimensional)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:32

	Туре	L #	Hits	Search Text	DBs	Time Stamp
4	BRS	L 4	55512	<pre>((x near3 (axis or orientate or orientated or orientating or orientation or align or aligned or aligning or alignment)) or "x-axis") same ((y near3 (axis or orientate or orientated or orientating or orientation or align or aligned or aligning or alignment)) or "y-axis") same ((z near3 (axis or orientate or orientated or orientating or orientation or align or aligned or aligning or alignment)) or "z-axis")</pre>	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:33
5	BRS	L5	3004	4 same (1 or accelerometer or inertial)	11'DDC• 1'DA•	2009/08/19 18 : 33
6	BRS	L6	153748	(orientate or orientated or orientating or orientation or align or aligned or aligning or alignment) near4 (id or identify or identifying or identified or identification or determine or determining or determination or determined or judge or judged or judging or judgment or judgor or evaluate or evaluated or evaluating or evaluated or evaluating or evaluater or analysis or analyze or analyzer or analyzor or calculate or calculated or calculating or calculation or calculator or calculater)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:34

	Туре	L #	Hits	Search Text	DBs	Time Stamp
7	BRS	L7	1756	6 near5 (alpha or acc or accelerate or accelerated or accelerating or acceleration or accelerometer or inertial)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:34
8	BRS	L8	1717	(2 or 3 or 5) same (6 or 7)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:34
9	BRS	L9	551924	(dominate or principle or major or first or primary) near3 (axis or orientate or orientated or orientating or orientation or align or aligned or aligning or alignment)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:34
10	BRS	L10	2860	9 near5 (alpha or acc or accelerate or accelerated or accelerating or acceleration or accelerometer or inertial)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:35
11	BRS	L11	17767	(9 or 10) near8 (id or identify or identifying or identified or identification or determine or determining or determination or determined or judge or judged or judging or judgment or judgement or judger or judgor or evaluate or evaluated or evaluating or evaluated or evaluator or evaluater or analysis or analyze or analyzed or analyzing or analyzer or analyzor or calculate or calculated or calculating or calculation or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:36

	Туре	L #	Hits	Search Text	DBs	Time Stamp
12	BRS	L12	1335521	gauge or gauged or gauging or gage or gaged or gaging	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:36

	Туре	L #	Hits	Search Text	DBs	Time Stamp
13	BRS	L13	2159999	(step or motion or human or run or running or walk or walking or cadence or stride or pedometer or distance or length) near5 (count or counted or counting or number or numbered or numbering or measure or measured or measuring or measurement or test or tested or testing or monitor or monitored or monitoring or capture or captured or capturing or detect or detected or detecter or detector or sense or sensed or sensing or sensor or senser or sensible or transduce or transduced or transducing or transducer or sample or sampled or sampling or sampler)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:36
14	BRS	L14	787	1 same (9 or 10) same (12 or 13 or step or motion or human or run or running or walk or walking or cadence or stride or pedometer or distance or length)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18 : 37
15	BRS	L15	49	8 and 11 and 14	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18 : 37

	Туре	L #	Hits	Search Text	DBs	Time Stamp
16	BRS	L16	129394	(awake or wakeup or awoken or woken or waking or enable or enabled or enabling) near10 (sleep or asleep or idle or dormant or disable or disabled or disabling or "non-active" or nonactive or inactive or (("non" or "not" or "in") adj2 (activate or activated or activating or activation)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:38
17	BRS	L17	829131	(step or motion or human or run or running or walk or walking or cadence or stride) near3 (interval or period or time or snapshot or periodic or periodically or tolerance or window or range or band)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:39
18	BRS	L18	760	16 same 17 same (12 or 13)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:40
19	BRS	L19	760	16 and 18 and (12 or 13)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:40
20	BRS	L20	809	15 or 19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:40

	Туре	L #	Hits	Search Text	DBs	Time Stamp
21	BRS	L21	20540	or above or outside or		2009/08/19 18:41
22	BRS	L22	10091	(alpha or acc or accelerate or accelerated or accelerating or acceleration or acceleration or accelerometer or inertial) near3 (min or minimum or low or lower or lowest or bottom or less or below or beneath or underneath) near3 (criteria or criterium or setpoint or point or level or threshold or limit or require or required or requiring or requirement or tolerance or qualify or qualified or qualifying or qualification or standard or bench or benchmark or baseline or base or reference)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:41

	Туре	L #	Hits	Search Text	DBs	Time Stamp
23	BRS	L23	96	21 near10 22 near10 ("with" or within or meet or met or meeting or "between")		2009/08/19 18:42
24	BRS	L24	29781	accelerating or acceleration or accelerometer or inertial)	USPAT;	2009/08/19 18:42
25	BRS	L25	5763	24 near10 ("with" or within	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:43
26	BRS	L26	398	(23 or 25) same (12 or 13)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:43
27	BRS	L27		accelerometer or inertial) near3 (history or historical or previous or prior or slope or trend or	US-PGPUB; USPAT; USOCR:	2009/08/19 18:43
28	BRS	L28	282		US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18 : 44

	Туре	L #	Hits	Search Text	DBs	Time Stamp
29	BRS	L29	99831	17 near6 (replace or replaced or replacing or replacement or switch or switched or switching or change or changed or changing or alter or altered or altering or alteration or modify or modified or modifying or modification or correct or corrected or correcting or corrected or correcting or compensated or compensate or calibrate or calibrated or calibrate or calibrated or adjusted or adjust or adjustment or update or updated or updating or configure or configured or configuration or reconfiguring or reconfiguring or reconfiguring or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:44
30	BRS	L30	106	27 same 29	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:44
31	BRS	L31	2	20 and (26 or 28 or 30)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:44

	Туре	L #	Hits	Search Text	DBs	Time Stamp
32	BRS	L32	1549	15 or 20 or 26 or 28 or 30 or 31	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18 : 45
33	BRS	L33	1516	73/1.76 or 73/1.77 or 73/1.78 or 73/1.79 or 73/1.81 or 377/1 or 377/13 or 377/15 or 377/17 or 377/20 or 377/24 or	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB Reviewed TI All	2009/08/19 18:46

	Туре	L #	Hits	Search Text	DBs	Time Stamp
34	BRS	L34	83	("20090043531" or "4578769" or "5446725" or "5976083" or "6135951" or "6145389" or "6539336" or "6790178" or "6823036" or "6885971" or "6898550" or "6959259" or "7072789" or "7092846" or "7148797" or "7158912" or "7171331" or "7200517" or "7212943" or "7220220" or "20020109600" or "20050240375" or "20050240375" or "20050248718" or "20060136173" or "6836744" or "6941239" or "7382611" or "20070063850" or "4285041" or "7387611" or "20070142715" or "6522266" or "6881191" or "20040225467" or "20050033200" or "5593431" or "5955667" or "6513381" or "6532419" or "6813582" or "2005022801" or "20060223547").pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:47
35	BRS	L36	24428	<pre>(kahn\$1.in. adj2 (p.in. or philippe.in.)) or (kinsolving\$1.in. adj2 (a.in. or arthur.in.)) or (christensen\$1.in. adj2 (m.in. or mark.in.)) or (lee\$1.in. adj2 (b.in. or brian.in.)) or (vogel\$1.in. adj2 (d.in. or david.in.))</pre>	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:48
36	BRS	L37	5	32 and (34 or 36) Reviewed Ti, Ab, Kwic All	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	2009/08/19 18:49

	Document	ID	Publicati on Date	Inventor	Current OR	Current XRef	Page s
1	US 6145389	А	20001114	EBELING A et al.			14
2	US 6369794	B1	20020409	Sakurai; Yasuhiro et al.	345/156	379/433.04	37
3	US 2002008 A1	9425	20020711	Kubo, Nobuo et al.	340/573.1	340/669	28
4	US 2003001 A1	8430	20030123	Ladetto, Quentin et al.	701/217	701/200	56
5	US 6700499	B2	20040302	Kubo; Nobuo et al.	340/686.1	340/573.1; 340/573.7; 482/3; 482/74; 600/510; 600/552; 600/553; 73/379.01; 73/379.09	27
6	US 6826477	B2	20041130	Ladetto; Quentin et al.	701/217	340/944; 701/200; 701/213; 73/178R	58
7	US 2005023 A1	2388	20051020	Tsuji, Tomoharu	377/24.2		10
8	US 2005023 A1	8132	20051027	Tsuji, Tomoharu	377/24.2		10
9	US 7169084	B2	20070130	Tsuji; Tomoharu	482/8	482/1; 482/9; 702/160	9

L32 Results

	Document I	D Publicati on Date	Inventor	Current OR	Current XRef	Page s
10	US 200700670 Al	94 20070322	Park; Kyong-Ha et al.	701/200	702/141	13
11	US 7297088 B	2 20071120	Tsuji; Tomoharu	182/3	377/24.2; 482/8; 482/900; 702/160	10
12	US 7457719 B	1 20081125	Kahn; Philippe et al.	702/141		16
13	US 200900435 Al	31 20090212	Kahn; Philippe et al.	702/149		22

L32 Results

	Document ID	Publicati on Date	Inventor	Current OR	Current XRef	Page s
1	US 6145389 A	20001114	EBELING A et al.			14
2	US 7457719 B1	20081125	Kahn; Philippe et al.	702/141		16
3	US 20090043531 A1	20090212	Kahn; Philippe et al.	702/149		22

L37 Results

Substitute	for Form 1449	PTO/			Complete	e if Known
		ΝΛΔ	TION DISCLOSUR	F	Application Number	11/644,455
					Filing Date	December 22, 2006
	STATE	EME	ENT BY APPLICAN	Г	First Named Inventor:	Philippe Kahn, et al.
		(use as	s many sheets as necessary)		Art Unit	2856
					Examiner Name	KWOK, HELEN C
Sheet	1		of	1	Attorney Docket Number	8689P027
			U.S. PATE		rs	
Examiner Initials*	Cite No. ¹	Num	Document Number ber-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documen	Pages, Columns, Lines, t Where Relevant Passages or Relevant Figures Appear
./E.C./		US-	6,522,266 B1	2/18/2003	Soehren, et al.	
/E.C./		US-	6,881,191 B2	4/19/2005	Oakley, et al.	
/E.C./		US-	2004/0225467 A1	11/11/2004	Vock, Curtis A.; et al.	
_/E.C./		US-	2005/0033200 A1	2/10/2005	Soehren, Wayne A.; et a	al.
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		FO	REIGN PATEN	T DOCUMENTS		
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant	T⁰
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Figures Appear	
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Examiner		Date Considered	08/22/2009
Signature	/Edward Cosimano/		00/22/2000

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Receipt date: 06/26/2009

Substitute	for Form 1449	/PTO			Complete	if Known
		ΜΔ	TION DISCLOSUR	F	Application Number	11/644,455
					Filing Date	December 22, 2006
	STATE	EME	ENT BY APPLICAN	Г	First Named Inventor:	Philippe Kahn, et al.
		(use as	many sheets as necessary)		Art Unit	2863
					Examiner Name	Cosimano, Edward R.
Sheet	1		of	2	Attorney Docket Number	8689P027
			U.S. PATEN	T DOCUMENTS	 }	
Examiner Initials*	Cite No.1	Numl	Document Number ber-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/E.C./		US-	5,593,431	1/14/1997	Sheldon	
/E.C./		US-	5,955,667	9/21/1999	Fyfe	
/E.C./		US-	6,513,381 B2	2/4/2003	Fyfe et al.	
/E.C./		US-	6,532,419	3/11/2003	Begin, et al.	
/E.C./		US-	6,813,582 B2	11/2/2004	Levi et al.	
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		FO	REIGN PATEN	T DOCUMENTS		
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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Examiner Signature	/Edward Cosimano/	Date Considered 08/22/2009
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Substitute fo	or Form 1	449/PTO		Compl	ete if Known	
		TION DISC		Application Number	11/644,455	
				Filing Date	December 22, 2006	
STAT	EME	NT BY API	PLICANT	First Named Inventor:	Philippe Kahn, et al.	
	(use as i	many sheets as neces	ssary)	Art Unit	2863	
				Examiner Name	Cosimano, Edward R.	
Sheet		2 of	2	Attorney Docket Number	8689P027	
			NON PATENT LIT	ERATURE DOCUMENTS		
Examiner Initials*	Cite No ¹	item (book, i	magazine, journal, se number(s), publ	AL LETTERS), title of the article (rial, symposium, catalog, etc.), da isher, city and/or country where p	te, page(s), volume-issue ublished	T ²
/E.C./			odolfo, "Biomechan , Oxford: Clarendon	ics and Energetics of Muscula Press 1976.	r Exercise", Chapter 3,	
/E.C./				nd Written Opinion for Internat october 2008, 10 pages.	ional Application No.	
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Signature /EdWard CosImano/ Considered 08/22/2009	Examiner		Date	
		/Edward Cosimano/		

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¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached. ¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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	Application/Control No.	Applicant(s)/Patent Under Reexamination
Search Notes	11644455	KAHN ET AL.
	Examiner	Art Unit
	Edward R Cosimano	2863

SEARCHED

Class	Subclass	Date	Examiner
33	700, 701	08/19/2009	ERC
73	1.01, 1.37, 1.38, 1.75, 1.76, 1.77, 1.78, 1.79, 1.81	08/19/2009	ERC
377	1, 13, 15, 17, 20, 24, 24.1, 24.2	08/19/2009	ERC
702	1, 85, 97, 127, 141, 150, 155, 158, 160, 187, 189	08/19/2009	ERC

SEARCH NOTES		
Search Notes	Date	Examiner
Inventor name search; continuity check	08/16/2009	ERC
EAST (USOCR, USPAT, US-PGPUB, DERWENT, EPO, FPRS, JPO, IBM-TDB)	08/19/2009	ERC

	INTERFERENCE SEARCH		
Class	Subclass	Date	Examiner

U.S. Patent and Trademark Office

Part of Paper No.: 20090822

Index of Claims					Application/Control No. 11644455 Examiner Edward R Cosimano				Applicant(s)/Patent Under Reexamination KAHN ET AL. Art Unit 2863							
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OIP	F			Filing Date	December 22, 2006	
/01	STATI	EME	INT BY APPLICAN	Т	First Named Inventor:	Philippe Kahn
		(use as	many sheets as necessary)		Art Unit	2856
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Sheet			of	3	Attorney Docket Number	7538.P027
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Examiner Initials*	Cite No.1	Numt	Document Number Der-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/E.C./	1	US-	4,578,769	3/25/1986	Frederick	
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	_	FO	REIGN PATEN	T DOCUMENTS		
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁰
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Based on Form PTO/SB/08A (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03.

Substitute	for Form 144	9/PTO			Complete	if Known
		2Ν/Δ	TION DISCLOSUR	F	Application Number	11/644,455
				Filing Date	December 22, 2006	
	STAT	EME	ENT BY APPLICAN	First Named Inventor:	Philippe Kahn	
		(use as	many sheets as necessary)		Art Unit	2856
					Examiner Name	Not Yet Assigned
Sheet	2		of	3	Attorney Docket Number	7538.P027
Examiner Initials*	Cite No.1		Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant
		Num	ber-Kind Code ² (If known)			Figures Appear
/F.C./		US-	7,171,331	1/30/2007	Vock, et al.	
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Substitute	or Form 1	449/PTO			Compl	ete if Known	
	RMA	TION	DISC	LOSURE	Application Number	11/644,455	
					Filing Date	December 22, 2006	
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	STATE	EME	ENT BY APPLICAN	Т	First Named Inventor:	Philippe Kahn
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					Examiner Name	Cosimano, Edward B
Sheet	1		of	2	Attorney Docket Number	8689P027
			U.S. PATEN	IT DOCUMENTS	3	
Examiner Initials*	Cite No.1	Numl	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/E.C./		US-	2005/0222801	10/6/2005	Wulff et al	
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		ΝΛΔ	TION DISCLOSUR	F	Application Number	11/644,455
					Filing Date	December 22, 2006
			ENT BY APPLICAN	First Named Inventor:	Philippe Kahn, et al.	
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Sheet	1		of	2	Attorney Docket Number	8689P027
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Examiner Initials*	Cite No.1	Num	Document Number ber-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/E.C./		US-	6,836,744 B1	12/28/2004	Asphahani, et al.	
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Sheet	-	2	of	2	Attorney Docket Number	8689P027			
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/E.C./		US-	4,285,041	8/18/1981	Smith		
/FC/		US-	7,387,611	6/17/2008	Inoue et al.		
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Signature			

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS.

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Based on Form PTO/SB/08A (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03.

# **Inventor Information for 11/644455**

Inventor Name	City	State/Country
KAHN, PHILIPPE	APTOS	CALIFORNIA
KINSOLVING, ARTHUR	SANTA CRUZ	CALIFORNIA
CHRISTENSEN, MARK ANDREW	SANTA CRUZ	CALIFORNIA
LEE, BRIAN Y.	APTOS	CALIFORNIA
VOGEL, DAVID	SANTA CRUZ	CALIFORNIA
Appln Info Contents Petition Info	Atty/Agent Info Continuity/Re	exam Foreign Data In
Search Another: Application #	Search or Patent#	Search
PCT /	Search or PG PUBS #	Search
Attorney Docket #	Search	
Bar Code #	Search	

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# **Continuity/Reexam Information for 11/644455**

## Parent Data No Parent Data

Child Data

No Child Data           Appin Info         Contents         Petition Info         Atty/Agent Info	Continuity/Reexam Foreign Data Inventor
Search Another: Application # Search	or Patent# Search Search
Attorney Docket #	r PG PUBS # Search
Bar Code # Search	

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16 August 2009

# **Foreign Information for 11/644455**

# No Foreign Data

Appln Info         Contents         Petition Info         Atty/Agent Info	Continuity/Reexam
Search Another: Application # Search	or Patent# Search
PCT / Search o	or PG PUBS # Search
Attorney Docket #	Search
Bar Code # Search	

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CHECKEI /ERC/	)
16 August	2009

(408) 720-8	300Substitute	e for Fo	orm 1449/PTO	Complete	if Known	
		21/2	TION DISCLOSUR	Application Number	11/644,455	
				Filing Date	December 22, 2009	
	STATE	EME	ENT BY APPLICAN	Т	First Named Inventor:	Philippe Kahn
		(use as	s many sheets as necessary)		Art Unit	2863
					Examiner Name	Cosimano, Edward B
Sheet	1		of	2	Attorney Docket Number	8689P027
					3	·
Examiner Initials*	Cite No.1	Num	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-	2005/0222801	10/6/2005	Wulff et al	
		US-	2006/0223547	10/5/2006	Chin et al	
		US-				
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	FOREIGN PATENT DOCUMENTS										
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶					

Examiner	Date Considered	
Signature		

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11/644,455

Page 3 of 3

8689P027

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Page 114 of 251

Electronic Ack	knowledgement Receipt
EFS ID:	5894427
Application Number:	11644455
International Application Number:	
Confirmation Number:	5415
Title of Invention:	Human activity monitoring device
First Named Inventor/Applicant Name:	Philippe Kahn
Customer Number:	08791
Filer:	Judith A. Szepesi
Filer Authorized By:	
Attorney Docket Number:	8689P027
Receipt Date:	14-AUG-2009
Filing Date:	22-DEC-2006
Time Stamp:	21:11:18
Application Type:	Utility under 35 USC 111(a)

## Payment information:

Submitted with Payment no						
File Listing:						
Document Number	t Document Description File Name File Size(Bytes)/ Multi Page					
1		8689P027_IDS_and_SB08.pdf	63742	yes	ч	
			5fa7a1a6cb5ab65a0e10046b1fa4b87053e3 ab8f	yes	5	

	Multipart Description/PDF files in .zip description					
	Document Description	Start	End			
	Transmittal Letter	1	2			
	Information Disclosure Statement (IDS) Filed (SB/08)	3	3			
Warnings:	I	I				
Information:						
	Total Files Size (in bytes):	63	742			

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## New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

## National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

## New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

## Attorney's Docket No. 8689P027

## PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant	: Philippe Kahn, et al	Examiner: Cosimano, Edward B
Appl. No.	: 11/644,455	Art Unit: 2863
Filed	: December 22, 2006	Confirmation No. 5415
For	: Human Activity Monitoring Device	<b>CERTIFICATE OF TRANSMISSION</b> I hereby certify that this correspondence is being submitted electronically via EFS Web on the date shown below.
Customer No.	: 08791	
		/Judith Szepesi/August 14, 2009Judith A. SzepesiDate

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

## **INFORMATION DISCLOSURE STATEMENT**

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed). It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

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Apple Ex. 1002

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being

submitted under one of the following (as indicated by an "X" to the left of

the appropriate paragraph):

- **X** 37 C.F.R. §1.97(b).
  - _____ 37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is <u>one</u> of the following:
    - A statement pursuant to 37 C.F.R. §1.97(e) or
    - ____ The Director is Authorized to charge in the amount of \$180.00 for the fee under 37 C.F.R. § 1.17(p).
  - _____ 37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:
    - (1) A statement pursuant to 37 C.F.R. §1.97(e); and
    - (2) A check for \$<u>180.00</u> for the fee under 37 C.F.R. §1.17(p) for submission of the Information Disclosure Statement.

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: August 14, 2009

<u>/Judith Szepesi/</u> Judith A. Szepesi Reg. No. 39,393

1279 Oakmead Parkway Sunnyvale, CA 94085 (408) 720-8300

11/644,455

Page 2 of 3

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Apple v. Uniloc

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Apple Ex. 1002

Substitute	for Form 1449	/РТО			Complete	if Known
	INFOR	MA	TION DISCLOSUR	F	Application Number	11/644,455
				Filing Date	December 22, 2006	
	—		ENT BY APPLICAN	First Named Inventor:	Philippe Kahn, et al.	
		(use as	many sheets as necessary)	Art Unit	2863	
					Examiner Name	Cosimano, Edward R.
Sheet	1		of	2	Attorney Docket Number	8689P027
	•		U.S. PATEN		3	
Examiner Initials*	Cite No.1	Numt	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-	5,593,431	1/14/1997	Sheldon	
		US-	5,955,667	9/21/1999	Fyfe	
		US-	6,513,381 B2	2/4/2003	Fyfe et al.	
		US-	6,532,419	3/11/2003	Begin, et al.	
		US-	6,813,582 B2	11/2/2004	Levi et al.	
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		FO	REIGN PATEN	T DOCUMENTS		
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
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Examiner	Date Considered	
Signature		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)  Art Unit  Sheet  C  of  C  NON PATENT LITERATURE OCCUMENTS  Examiner  No  NON PATENT LITERATURE OCCUMENTS  Examiner  OCCUMENTS  P  C  P  C  NON PATENT LITERATURE OCCUMENTS  P  C  C  NON PATENT LITERATURE OCCUMENTS  Examiner  OCCUMENTS  P  C  C  NON PATENT LITERATURE OCCUMENTS  P  C  C  NON PATENT LITERATURE OCCUMENTS  Examiner  OCCUMENTS  P  C  NON PATENT LITERATURE OCCUMENTS  P  C  C  NON PATENT P  C  NON PATENT LITERATURE OCCUMENTS  P  C  NON PATENT P  C  NON PATENT P  C  NON PATENT P  C  P  C  NON PATENT P  C  C  C  C  C  C  C  C  C  C  C  C	Substitute f	or Form 1	449/PTC	)		Compl	ete if Known	
Filing Date       December 22, 2006         Filing Date       December 22, 2006         First Named Inventor:       Philippe Kahn, et al.         Art Unit       2863         Sheet       2       of       2       Attorney Docket Number       8689P027         NON PATENT LITERATURE DOCUMENTS         Examiner       Cite       Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published       T ² MARGARIA, Rodolfo, "Biomechanics and Energetics of Muscular Exercise", Chapter 3, pages 105-125, Oxford: Clarendon Press 1976.         PCT International Search Report and Written Opinion for International Application No.			τιωνι					
(use as many sheets as necessary)       Art Unit       2863         Examiner Name       Cosimano, Edward R.         Sheet       2       of       2       Art Unit       2863         Sheet       Cosimano, Edward R.         Sheet       2       of       2       Attorney Docket Number       8689P027         NON PATENT LITERATURE DOCUMENTS         Examiner       Cite       Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published       T ² MARGARIA, Rodolfo, "Biomechanics and Energetics of Muscular Exercise", Chapter 3, pages 105-125, Oxford: Clarendon Press 1976.       PCT International Search Report and Written Opinion for International Application No.						Filing Date	December 22, 2006	
Alt Unit     2863       Examiner Name     Cosimano, Edward R.       Sheet     2     of     2     Attorney Docket Number     8689P027       NON PATENT LITERATURE DOCUMENTS     NON PATENT LITERATURE DOCUMENTS     T ² Examiner Initials*     Cite No ¹ Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published     T ² MARGARIA, Rodolfo, "Biomechanics and Energetics of Muscular Exercise", Chapter 3, pages 105-125, Oxford: Clarendon Press 1976.     PCT International Search Report and Written Opinion for International Application No.	STA					First Named Inventor:	Philippe Kahn, et al.	
Sheet         2         of         2         Attorney Docket Number         8689P027           NON PATENT LITERATURE DOCUMENTS           Examiner Initials*         Cite No ¹ Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published         T ² MARGARIA, Rodolfo, "Biomechanics and Energetics of Muscular Exercise", Chapter 3, pages 105-125, Oxford: Clarendon Press 1976.         PCT International Search Report and Written Opinion for International Application No.		(use as i	many she	ets as neces	ssary)	Art Unit	2863	
NON PATENT LITERATURE DOCUMENTS           Examiner Initials*         Cite No ¹ Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published         T ² MARGARIA, Rodolfo, "Biomechanics and Energetics of Muscular Exercise", Chapter 3, pages 105-125, Oxford: Clarendon Press 1976.         PCT International Search Report and Written Opinion for International Application No.						Examiner Name	Cosimano, Edward R.	
Examiner Initials*       Cite No ¹ Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published       T ² MARGARIA, Rodolfo, "Biomechanics and Energetics of Muscular Exercise", Chapter 3, pages 105-125, Oxford: Clarendon Press 1976.       PCT International Search Report and Written Opinion for International Application No.	Sheet		2	of	2	Attorney Docket Number	8689P027	
Initials*         No ¹ item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published           MARGARIA, Rodolfo, "Biomechanics and Energetics of Muscular Exercise", Chapter 3, pages 105-125, Oxford: Clarendon Press 1976.         PCT International Search Report and Written Opinion for International Application No.					NON PATENT LIT	ERATURE DOCUMENTS		
pages 105-125, Oxford: Clarendon Press 1976.         PCT International Search Report and Written Opinion for International Application No.			item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published					T ²
							r Exercise", Chapter 3,	
Image: Second								
Image: Sector								
Image:								

Examiner	Date	
Signature	Considered	

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Electronic Acknowledgement Receipt					
EFS ID:	5591340				
Application Number:	11644455				
International Application Number:					
Confirmation Number:	5415				
Title of Invention:	Human activity monitoring device				
First Named Inventor/Applicant Name:	Philippe Kahn				
Customer Number:	08791				
Filer:	Benjamin Kimes/Betty Scaletta				
Filer Authorized By:	Benjamin Kimes				
Attorney Docket Number:	8689P027				
Receipt Date:	26-JUN-2009				
Filing Date:	22-DEC-2006				
Time Stamp:	19:25:53				
Application Type:	Utility under 35 USC 111(a)				

## Payment information:

Submitted with Payment			no			
File Listing:						
Document Number	Document Description		File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	NPL Documents	86	89P027_IDS_NPL_Margaria. pdf	1231895 0a62823febcd98bd363850b5547082d5635 21def	no	22
Warnings:						
Information:						

2					
4	NPL Documents	8689P027_IDS_NPL_PCTUS200 8072537.pdf	689371	no	10
		0072007.pdi	2d9149c52e84c15c323a2877091e701285c ee43b		
Warnings:					
Information:					
3	Transmittal Letter	8689P027_IDS_LTR_06-26-09.	19307	no	2
J		pdf	02a8c21c9af77453d49949cb167f3ecb5cc1 c3ea	110	-
Warnings:		I			
Information:					
	Information Disclosure Statement (IDS)		65569		
4	Information Disclosure Statement (IDS) Filed (SB/08)	8689P027_IDS_SB08_06-26-09. pdf	ea13f8fe1ac8ac333320e01cc580ec542269 5deb	no	2
Warnings:		l			
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This is not an U	SPTO supplied IDS fillable form				
		Total Files Size (in bytes):	20	06142	
characterized Post Card, as	ledgement Receipt evidences receip d by the applicant, and including pag described in MPEP 503. tions Under 35 U.S.C. 111				
lf a new appl 1.53(b)-(d) ar Acknowledge National Stag	ication is being filed and the applica nd MPEP 506), a Filing Receipt (37 CF ement Receipt will establish the filin <u>ge of an International Application ur</u> bmission to enter the national stage	R 1.54) will be issued in due o g date of the application. nder 35 U.S.C. 371	course and the date s	hown on th	is
If a new appl 1.53(b)-(d) an Acknowledge National Stag If a timely su U.S.C. 371 an national stag New Internat If a new inter	nd MPEP 506), a Filing Receipt (37 CF ement Receipt will establish the filin	R 1.54) will be issued in due of g date of the application. of an international applicati orm PCT/DO/EO/903 indicati ill be issued in addition to the <u>PTO as a Receiving Office</u> nd the international applicati	course and the date s on is compliant with t ng acceptance of the Filing Receipt, in du ion includes the nece	hown on th the condition application e course. ssary comp	is ons of 2 1 as a onent:

# PATENT COOPERATION TREATY OCT 2 2008

From the INTERNATIONAL SEARCHING AUTHORIT	FY 814-11 1978			
To: LESTER VINCENT BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4000 ECEIVE OCT 2 8 2008	SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)			
BLAKELY, SOKOLUFF, TAYLOH & 2 SUNNYVALE	[dby/month/year]			
Applicant's or agent's file reference 7538P044PCT	FOR FURTHER ACTION See paragraphs I and 4 below			
International application No. PCT/US2008/072537	International filing date (day/month/year) 07 August 2008			
Applicant FULLPOWER TECHNOLOGIES, INC.				
The applicant is hereby notified that the international Authority have been established and are transmitted h	search report and the written opinion of the International Searching nerewith.			
<ul> <li>Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46);</li> <li>When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.</li> <li>Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.; +41 22 740 14 35</li> </ul>				
For more detailed instructions, see the notes on the accompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.				
3. With regard to the protest against payment of (an) a	idditional fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been transmitted to the International Bureau together with th applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decision has been made yet on the protest;	the applicant will be notified as soon as a decision is made.			
4. Reminders Shortly after the expiration of 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.				
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months.	months (or later) will apply even if no demand is filed within 19			
See the Annex to Form PCT/IB/301 and, for details about the Guide, Volume II, National Chapters and the WIPO Internet	e applicable time limits, Office by Office, see the PCT Applicant's site.			
Name and mailing address of the ISA/US	Authorized officer:			
Mail Stop PCT, Atm. ISA/US Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450	Blaine R. Copenheaver			

Form PCT/ISA/220 (January 2004)

Facsimile No. 571-273-3201

(See	notes	on	accompanying	sheet)
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Entered Into FIP By:

DATE IN TO FOREIGN DOCKETING 10/28/08 DOCKETED BY REVIEWED BY

571-272-7774

Apple v. Uniloc

Page 123 of 251

Telephone No.

Apple Ex. 1002

#### PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To: LESTER VINCENT BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP	РСТ			
1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1)			
	Date of mailing (day-month/year) 2 2 OCT 2008			
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below			
7538P044P <b>CT</b>	TORTERTHER ACTION See paragraphis 1 and 4 below			
International application No. PCT/US2008/072537	International filing date (day/month/year) 07 August 2008			
Applicant FULLPOWER TECHNOLOGIES, INC.				
<ol> <li>The applicant is hereby notified that the international Authority have been established and are transmitted here.</li> </ol>	search report and the written opinion of the International Searching erewith.			
Filing of amendments and statement under Article The applicant is entitled, if he so wishes, to amend th	19: e claims of the international application (see Rule 46):			
When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.				
Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35				
For more detailed instructions, see the notes on the accompanying sheet.				
2. The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.				
	dditional fee(s) under Rule 40.2, the applicant is notified that:			
	has been transmitted to the International Bureau together with the the protest and the decision thereon to the designated Offices.			
no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.				
International Bureau. If the applicant wishes to avoid or application, or of the priority claim, must reach the Internati- before the completion of the technical preparations for inter	-			
The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Burcau. The International Burcau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.				
Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminar- examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.				
In respect of other designated Offices, the time limit of 30 months.	months (or later) will apply even if no demand is filed within 19			
	e applicable time limits, Office by Office, see the PCT Applicant's site.			
Name and mailing address of the ISA/US	Authorized officer:			
tail Stop PCT, Attm: ISA/US commissioner for Patents	Blaine R. Copenheaver			
0. Box 1450, Alexandria, Virginia 22313-1450 'acsimile No. 571-273-3201	Telephone No. 571-272-7774			

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

## PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 7538P044PCT	FOR FURTHER as well	see Form PCT/ISA/220 t as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US2008/072537	07 August 2008	08 August 2007
Applicant FULLPOWER TECHNOLOGIES, INC.		
	een prepared by this International Searching 2 28 transmitted to the International Bureau.	Authority and is transmitted to the applican
This international search report consist It is also accompanied by	s of a total of sheets. a copy of each prior art document cited in this	report.
1. Basis of the report		
-	e international search was carried out on the b	asis of:
the international app	blication in the language in which it was filed	
	nternational application into	, which is the language
	ished for the purposes of international search ( tide and/or amino acid sequence disclosed in	
	the ana/or annuo acta sequence disclosed in	ine inclinational application, see Dox No. 1.
2. Certain claims were foun	d unsearchable (see Box No. II)	
3. Unity of invention is lack	ing (see Box No. III)	
4. With regard to the title,		
the text is approved as sub-	mitted by the applicant	
the text has been established	ed by this Authority to read as follows:	
5. With regard to the abstract,		
the text is approved as subr	nitted by the applicant	
	d, according to Rule 38.2(b), by this Authority n the date of mailing of this international searc	
6. With regard to the drawings,		
a. the figure of the drawings to be	published with the abstract is Figure No. $1$	
as suggested by the a	pplicant	
as selected by this Au	thority, because the applicant failed to suggest	t a figure
as selected by this Au	thority, because this figure better characterize	s the invention
<b>b</b> b b none of the figures is to be a	published with the abstract	

### INTERNATIONAL SEARCH REPORT

International application No. PCT/US2008/072537

IPC(8) - USPC -	ASSIFICATION OF SUBJECT MATTER - G01P 5/00 (2008.04) 702/142 to International Patent Classification (IPC) or to bot	h national classification and IPC			
	documentation searched (classification system followed	by classification symbols)			
IPC(8) - G0 USPC - 70	01P 5/00 (2008.04) 2/141, 142				
Documenta	tion scarched other than minimum documentation to the	extent that such documents are included in th	e fields searched		
Electronic d	lata base consulted during the international search (nam	e of data base and, where practicable, search to	erms used)		
MicroPaten	t, Google Patent				
C. DOCU	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.		
x	US 6,522,266 B1 (SOEHREN et al) 18 February 200	03 (18.02.2003) entire document	1-3, 6, 7, 13, 14, 20-22, 25, 26		
Y			4, 5, 8-12, 15-19, 23-24, 27-31		
Y	US 2005/0033200 A1 (SOEHREN et al) 10 February	y 2005 (10.02.2005) entire document	4-5, 15, 23, 24		
Y	US 6.881,191 B2 (OAKLEY et al) 19 April 2005 (19.0	04.2005) entire document	8, 9, 16, 17, 27, 28		
Y	US 2004/0225467 A1 (VOCK et al) 11 November 20	04 (11.11.2004) entire document	10-12, 18, 19, 29-31		
Further	r documents are listed in the continuation of Box C.				
"A" documer	categories of cited documents: nt defining the general state of the art which is not considered	"T" later document published after the interr d date and not in conflict with the applic	ation but cited to understand		
	particular relevance oplication or patent but published on or after the internationa te	the principle or theory underlying the in "X" document of particular relevance; the considered novel or cannot be considered.	laimed invention cannot be		
"L" document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of another citation or other "V" document of particular relevance; the claimed invention			laimed invention cannot be		
"O" documen means	cument referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination				
"P" documen the prior	it published prior to the international filing date but later than ity date claimed	" "&" document member of the same patent fa	ımily		
Date of the ac 07 October 20	tual completion of the international search	Date of mailing of the international searce			
	iling address of the ISA/US	Authorized officer:			
	, Attn: ISA/US, Commissioner for Patents , Alexandria, Virginia 22313-1450	Blaine R. Copenheav	ver		
Facsimile No.	571-273-3201	PCT Helpdesk: 571-272-4300 PC7 OSP: 571-272-7774	1		

Form PCT/ISA/210 (second sheet) (April 2005)

## PATENT COOPERATION TREATY

To: LESTER VINCENT BLAKELY, SOKOLOFF, TAYLOR & ZA	MAN	РСТ		
LLP 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040	INTERN	WRITTEN OPINION OF THE JATIONAL SEARCHING AUTHORITY		
		(PCT Rule 43bis.1)		
	Date of mailing (day/month/yea			
Applicant's or agent's file reference 7538P044PCT	FOR FURTH	ER ACTION See paragraph 2 below		
	l filing date (day/month/year)	Priority date (day/month/year)		
PCT/US2008/072537 07 Augus	1 2008	08 August 2007		
International Patent Classification (IPC) or both nation IPC(8) - G01P 5/00 (2008.04) USPC - 702/142	al classification and IPC			
Applicant FULLPOWER TECHNOLOGIES, IN	C.			
1. This opinion contains indications relating to the following items:				
<ol> <li>FURTHER ACTION         If a demand for international preliminary examin International Preliminary Examining Authority (") other than this one to be the IPEA and the chosen opinions of this International Searching Authority     </li> </ol>	EA") except that this does not IPEA has notified the Internat	t apply where the applicant chooses an Authority		
If this opinion is, as provided above, considered to a written reply together, where appropriate, with an PCT/ISA/220 or before the expiration of 22 months	endments, before the expiration	on of 3 months from the date of mailing of Form		
For further options, see Form PCT/ISA/220.				
<ol> <li>For further details, see notes to Form PCT/ISA/220</li> </ol>				
Name and mailing address of the ISA/US Date of com	letion of this opinion	Authorized officer:		
Aail Stop PCT, Atin: ISA/US	r			

Form PCT/ISA/237 (cover sheet) (April 2007)

	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY	International application No. PCT/US2008/072537
Box No. I	Basis of this opinion	
1. With re	gard to the language, this opinion has been established on the basis of: the international application in the language in which it was filed, a translation of the international application into	which is the language of $a$ ) and 23.1(b)).
2.	This opinion has been established taking into account the rectification of an to this Authority under Rule 91 (Rule 43 <i>bis</i> .1(a))	n obvious mistake authorized by or notified
establis	gard to any nucleotide and/or amino acid sequence disclosed in the inter hed on the basis of: of material a sequence listing table(s) related to the sequence listing	national application, this opinion has been
b. form	nat of material on paper in electronic form	
c. tíme	of filing/furnishing contained in the international application as filed filed together with the international application in electronic form furnished subsequently to this Authority for the purposes of search	
f	n addition, in the case that more than one version or copy of a sequence listin iled or furnished, the required statements that the information in the subsequent the application as filed or does not go beyond the application as filed, as a	ent or additional copies is identical to that
5. Addition	al comments:	

Form PCT/ISA/237 (Box No. I) (April 2007)

WRITTEN OPINION OF THE				
INTERNATIONAL SEARCHING AUTHORITY				

,

International	application No.
PCT/US2	008/072537

1 Chadamand		<i>bis.</i> 1(a)(i) with regard to novelty, inventive step or industrial applic ng such statement	ability;
I. Statement			
Noveity (N)	Claims Claims	4, 5, 8-12, 15-19, 23, 24, 27-31 1-3, 6, 7, 13, 14, 20-22, 25, 26	YES NO
Inventive step (IS)	Claims	None 1-31	YES
	Claims		NO
Industrial applicability (IA)	Claims Claims	1-31 None	YES NO
hereinafter referred to as Soehren '266. Regarding Claim 1, Soehren '266 disclose monitoring accelerations (100, fig. 1) usi- wherein at least one of the plurality of loc- counting a plurality of steps based on the letermining a gait characteristic to the plurality therein ing a gait characteristic to determine letermining at least one of a distance tra 6-39). Regarding Claim 13, Soehren '266 disclosed in inertial sensor (414, fig. 4) to monitor the plurality of locations is not a foot loca- step counting logic coupled with the ine- 5); gait logic coupled with the step counting- tersus walking speed algorithm, col. 6, lin- action to the plurality of locations (100, fig. 1) usin herein at least one of the plurality of loca- sonitoring accelerations (100, fig. 1) usin herein at least one of the plurality of loca- stermining a gait characteristic of the plu- sing the gait characteristic of the the stermining at least one of a distance trav- 5-39).	ses a method of ng an inertial se cations is not a i a accelerations urality of steps a stride length iveled and a spi accelerations (1 tion (backpack, ritial sensor to c g logic to determ to to determine a nes 20-28; also filty of steps to de equency to deter g an inertial sen ations is not a for accelerations ( a stride length ( reled and a spe b discloses the g	(frequency of step, col. 6, lines 32-36); (step length determined, col. 6, lines 16-28); and seed of travel based on the stride length (distance traveled determined, or oparatus (navigation system for a human, abstract), comprising: 100, fig. 1) from one of a plurality of locations on a body, wherein at leas wrist or arm location, col. 14, lines 23-30); count a plurality of steps based on the accelerations (counting steps, co- nine a gait characteristic of the plurality of steps (modeling step distance a stride length of the plurality of steps based on the gait characteristic (s col. 14, lines 42-57; the distance is determined, col. 6, lines 32-36); letermine at least one of a distance traveled and a speed of travel (moti armine the distance traveted, col. 6, lines 36-39). accessible storage medium including instructions that, when executed b uter or processor 404, fig. 4; col. 6, lines 8-53), comprising: nsor (414, fig. 4) disposed at one of a plurality of locations on a human bot location (backpack, wrist or arm location, col. 14, lines 23-30); counting steps, col. 6, line 35);	omprising: body, col. 6, lines at one of l. 6, line e, col. 6, step length on body, ol. 6, lines

Form PCT/ISA/237 (Box No. V) (April 2007)

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2008/072537

#### Supplemental Box

#### in case the space in any of the preceding boxes is not sufficient.

Continuation of:

Claims 4, 5, 15, 23, and 24 lack an inventive step under PCT Article 33(3) as being obvious over Soehren 1266 in view of Soehren et al. (US 2005/0033200 A1), hereinafter referred to as Soehren '200.

Regarding Claims 4, 15, and 23, Soehren '266 discloses that the data structure includes a plurality of entries, each of the plurality of entries associating a distinct stride length with one or more distinct gait characteristics (col. 6, lines 20-28; also col. 14, lines 42-57; fig. 6),

but lacks the teaching of determining one or more user attributes; and modifying the data structure based on the one or more user attributes to calibrate the stride length by changing one or more of the plurality of entries. Soehren '200 teaches a method of monitoring human activity (classifying and measuring human motion, abstract), comprising: monitoring accelerations using an inertial sensor (IMU 24, fig. 2, para, 0033) in order to provide a distance estimate (28, para, 0041) and further teaches determining one or more user attributes (52, information on the state of the person monitored, para, 0041); and modifying the data structure based on the one or more user attributes 52 to 50 to Kaiman filter 41) to calibrate the stride length by changing one or more of the plurality of entries (Kalman filter feeds back to motion classification unit 28, where the stride length is initially calculated, para. 0012, 0041).

It would have been obvious to one of ordinary skill in the art at the time of the invention to provide the user attributes of Soehren '200 to the data structure and analysis of Soehren '266 in order to monitor persons with health problems so that help can be sent should they become incapacitated (Soehren '200, para. 0004).

Regarding Claims 5 and 24, Soehren '266 lacks the teaching of receiving a user input of one or more user attributes; and generating the data structure using the one or more user attributes.

Soehren '200 teaches a method of monitoring human activity (classifying and measuring human motion, abstract), comprising; monitoring accelerations using an inertial sensor (IMU 24, fig. 2, para. 0033) in order to provide a distance estimate (28, para. 0041) and further teaches receiving a user input of one or more user attributes (52, information on the state of the person monitored, para. 0041); and

generating the data structure using the one or more user attributes (52 to 50 to Kalman filter 41). It would have been obvious to one of ordinary skill in the art at the time of the invention to provide the user attributes of Scehren '200 to the data structure and analysis of Soehren '266 in order to monitor persons with health problems so that help can be sent should they become incapacitated (Soehren '200, para. 0004).

Claims 8, 9, 16, 17, 27, and 28 lack an inventive step under PCT Article 33(3) as being obvious over Soehren '266 in view of Oakley et al., hereinafter referred to as Oakley

Regarding claims 8, 16, and 27, Soehren '266 teaches the use of a stride length to determine a distance travelled as previously described with respect to claim 1, but lacks the teaching of receiving a heart rate from a heart rate sensor; and determining information about the distance traveled based on the heart rate.

Oakley teaches a movement sensor system (abstract) in which heart rate is monitored by a heart rate sensor (col. 1, lines 8-10) and is used to determine information about the stride length based on the heart rate (heart-rate measurement used to determine user's stride

length or number of strides, col. 3, lines 19-24). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the heart rate information as taught by Oakley to determine the distance travelled of Soehren '266' in order to aid in determining the energy expenditure of the user over distance In order to define a weight loss regimen (Oakley, col. 1, lines 48-55).

Regarding claims 9 and 17, Soehren '266 discloses that determining Information comprises determining an incline (col. 3, lines 8-14), and adjusting a stride length to gait characteristic based on the incline (230, fig. 2).

Regarding claim 28, Soehren '266 discloses that determining information comprises determining an incline (col. 3, lines 8-14), and adjusting a stride length to cadence correlation based on the incline (230, fig. 2).

Claims 10-12, 18, 19, and 29-31 lack an inventive step under PCT Article 33(3) as being obvious over Soehren '266 in view of Vock et al., hereinafter referred to as Vock

Regarding claims 10, 18, and 29, Soehren '266 lacks the teaching of using a competition logic to compare the distance traveled and the speed of travel to stored race data to generate a comparison result; and presenting a real time performance indication that includes the comparison result.

Vock teaches the use of inertial sensors in a distance (para, 0074) and speed (para, 0050) measuring system and further teaches the use of a competition logic (controller subsystem 12, fig. 1A) to compare the distance traveled and the speed of travel to stored race data to generate a comparison result (claim 1; para. 0081); and

presenting a real time performance indication that includes the comparison result (para. 0191). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the comparison data of Vock in the method of Soehren in order to provide a quantification of a user's activity in relation to others (Vock, para. 0022) so as to guide him in improving his skills

Regarding claims 11 and 30, Soehren '266 lack the teaching of receiving stored race data from one of a server and a mobile device. Vock teaches receiving stored race data from one of a server and a mobile device (82, fig. 1B). It would have been obvious to one of ordinary skill in the art at the time of the invention to use the server of Vock to download the race

data in order to allow the user to compare his statistics to a plurality of statistics from other users (Vock, para. 0022).

Form PCT/ISA/237 (Supplemental Box) (April 2007)

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2008/072537

#### Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:

Regarding claims 12 and 31, modified Soehren '266 discloses comparing data as shown above, and Soehren '266 further teaches normalizing at least one of the distance traveled, the speed of travel, the stored distance traveled, and the stored speed of travel (accelerometer signals are divided into 2.56 second signal segments, further processing determines the human motion, col. 15, lines 25-32; the human motion is used to determine the distance travelled, col. 15, lines 2-4).

Regarding claim 19, Soehren '266 lacks the teaching of a competition logic to enable users to set up time shifted races. Vack teaches a competition logic which can enable users to set up time shifted races (comparing scores with other players across the world, para. 0404).

It would have been obvious to one of ordinary skill in the art at the time of the invention use the competition logic of Vock in the apparatus of Soehren '266 in order to allow players to improve their abilities by comparison with their own previous score or with other players (Vock, para, 0404).

Claims 1-31 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/ISA/237 (Supplemental Box) (April 2007)

#### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

#### INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCTApplicant's Guide*, Volume I/A, paragraph 296).

#### What parts of the international application may be amended ?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When ? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

#### Where not to file the amendments ?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How ? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

#### What documents must/may accompany the amendments ?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

Notes to Form PCT/ISA/220 (first sheet) (January 2004)

Page 132 of 251

Attorney's Docket No. 8689P027

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Philippe Kahn, et al.

Application No.: 11/644,455

Filed: December 22, 2006

For: HUMAN ACTIVITY MONITORING DEVICE

Examiner: Cosimano, Edward R.

Art Unit: 2863

Confirmation No.: 5415

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

## **INFORMATION DISCLOSURE STATEMENT**

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

<u>CERTIFICAT</u>	<b>E OF ELECTRONIC</b>	FILING
I hereby certify that this correspondence is being de	eposited with the United	States Patent and Trademark Office via
electronic filing through the United States Patent an June 26, 2009	nd Trademark Electronic	Filing System on:
Date of Deposit		
Betty Scaletta		
Name of Person Mailing Correspondence		
/Betty Scaletta/	06-26-2009	
Signature	Date	
Application No.: 11/644,455	- 1 -	Atty. Docket No.: 8689P027

Apple v. Uniloc

Page 133 of 251

Apple Ex. 1002

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure

Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

<u>X</u> 37 C.F.R. §1.97(b).

 37 C.F.R. §1.97(c). If so, then enclosed with this Information
Disclosure Statement is one of the following:

- A statement pursuant to 37 C.F.R. §1.97(e) or
- The Director is Authorized to charge our Deposit Acct. No. 02-2666 in the amount of \$180.00 for the fee under 37 C.F.R. § 1.17(p).
- _____ 37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:
  - (1) A statement pursuant to 37 C.F.R. §1.97(e); and
  - (2) Authorization to charge our Deposit Acct. No. 02-2666 in the amount of \$<u>180.00</u> for the fee under 37 C.F.R. \$1.17(p) for submission of the Information Disclosure Statement.

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: June 25, 2009

/Benjamin A. Kimes/ Benjamin A. Kimes Reg. No. 50,870

1279 Oakmead Parkway Sunnyvale, CA 94085-4040 (408) 720-8300

Application No.: 11/644,455

- 2 -

Atty. Docket No.: 8689P027

Apple v. Uniloc

Page 134 of 251

Attorney's Docket No. 8689P027

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Philippe Kahn, et al.

Application No.: 11/644,455

Filed: December 22, 2006

For: HUMAN ACTIVITY MONITORING DEVICE

Examiner: KWOK, HELEN C

Art Unit: 2856

Confirmation No.: 5415

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

## **INFORMATION DISCLOSURE STATEMENT**

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form, except for copies not required to be submitted (e.g., copies of U.S. patents and U.S. published patent applications need not be enclosed for applications filed after June 30, 2003). It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

<u>CERTIFICA</u>	TE OF ELECTRONIC FILI	NG
I hereby certify that this correspondence is being of	deposited with the United States	s Patent and Trademark Office via
electronic filing through the United States Patent a January 16, 2009	and Trademark Electronic Filin	g System on:
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Betty Scaletta	_	
Name of Person Mailing Correspondence		
/Betty Scaletta/	01-16-2009	
Signature	Date	
Application No.: 11/644,455	- 1 -	Docket No.: 8689P027

Apple v. Uniloc

Page 135 of 251

Apple Ex. 1002

PATENT

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure

Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

<u>X</u> 37 C.F.R. §1.97(b).

 37 C.F.R. §1.97(c). If so, then enclosed with this Information
Disclosure Statement is one of the following:

- A statement pursuant to 37 C.F.R. §1.97(e) or
- The Director is Authorized to charge our Deposit Acct. No. 02-2666 in the amount of \$180.00 for the fee under 37 C.F.R. \$ 1.17(p).
- _____ 37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:
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## BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: January 16, 2009

/Benjamin A. Kimes/ Benjamin A. Kimes Reg. No. 50,870

1279 Oakmead Parkway Sunnyvale, CA 94085-4040 (408) 720-8300

Application No.: 11/644,455

Docket No.: 8689P027

Apple v. Uniloc

Page 136 of 251

Substitute for Form 1449/PTO			Complete	e if k	Known		
INFORMATION DISCLOSURE				Application Number	11/	644,455	
					Filing Date	De	cember 22, 2006
	STATE	EME	ENT BY APPLICAN	Т	First Named Inventor:	Phi	ilippe Kahn, et al.
		(use as	s many sheets as necessary)		Art Unit	285	
					Examiner Name	KW	VOK, HELEN C
Sheet	1		of	1	Attorney Docket Number		39P027
			U.S. PATE		ſS		
Examiner Initials*	Cite No.1	Num	Document Number ber-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documer	nt	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-	6,522,266 B1	2/18/2003	Soehren, et al.		
		US-	6,881,191 B2	4/19/2005	Oakley, et al.		
		US-	2004/0225467 A1	11/11/2004	Vock, Curtis A.; et al.	•	
		US-	2005/0033200 A1	2/10/2005	Soehren, Wayne A.; et a	al.	
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	FOREIGN PATENT DOCUMENTS											
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶						

Examiner	Date Considered	
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Based on Form PTO/SB/08A (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03.

Electronic Acl	knowledgement Receipt
EFS ID:	4633170
Application Number:	11644455
International Application Number:	
Confirmation Number:	5415
Title of Invention:	Human activity monitoring device
First Named Inventor/Applicant Name:	Philippe Kahn
Customer Number:	08791
Filer:	Benjamin Kimes/Betty Scaletta
Filer Authorized By:	Benjamin Kimes
Attorney Docket Number:	8689P027
Receipt Date:	16-JAN-2009
Filing Date:	22-DEC-2006
Time Stamp:	19:45:27
Application Type:	Utility under 35 USC 111(a)

# Payment information:

Submitted with Payment			no				
File Listing:							
Document Number	Document Description		File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)	
1	Information Disclosure Statement Letter	86	89P027_IDS_LTR_01-16-09. pdf	21641 d987253f358e7f81b19b8e04703b877a77c 913fc	no	2	
Warnings:							
Information:							

2	Information Disclosure Statement (IDS) Filed (SB/08)	8689P027_IDS_SB08_01-16-09. pdf	56133 7b0f8bdbcd5a53aad56d78727ec5b2d9610 ccf94	no	1
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characterize Post Card, a: <u>New Applica</u> If a new app 1.53(b)-(d) a Acknowledg <u>National Sta</u> If a timely su U.S.C. 371 ar national sta <u>New Interna</u> If a new inte an international states and of the Ir	ledgement Receipt evidences receip d by the applicant, and including pag described in MPEP 503. <u>tions Under 35 U.S.C. 111</u> lication is being filed and the applica nd MPEP 506), a Filing Receipt (37 CF ement Receipt will establish the filin <u>ge of an International Application un</u> bmission to enter the national stage nd other applicable requirements a F ge submission under 35 U.S.C. 371 wi <u>tional Application Filed with the USP</u> rnational application is being filed ar onal filing date (see PCT Article 11 an ternational Filing Date (Form PCT/RC urity, and the date shown on this Ack fon.	ge counts, where applicable. tion includes the necessary of R 1.54) will be issued in due of g date of the application. <u>Inder 35 U.S.C. 371</u> of an international applicati orm PCT/DO/EO/903 indicati ill be issued in addition to the <u>TO as a Receiving Office</u> and the international application D/105) will be issued in due co	It serves as evidence components for a filir course and the date s on is compliant with ng acceptance of the e Filing Receipt, in du ion includes the nece of the International ourse, subject to pres	e of receipt s ng date (see shown on th the condition application e course. ssary comp Application scriptions co	37 CFR 37 CFR is ons of 35 as a onents for Number oncerning

Attorney's Docket No. 8689P027

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Philippe Kahn, et al.

Application No.: 11/644,455

Filed: December 22, 2006

For: HUMAN ACTIVITY MONITORING DEVICE

Examiner: KWOK, HELEN C

Art Unit: 2856

Confirmation No.: 5415

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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<b><u>CERTIFICAT</u></b>	<u>'E OF ELECTRONIC FII</u>	LING
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Betty Scaletta		
Name of Person Mailing Correspondence		
/Betty Scaletta/	12-11-2008	
Signature	Date	
Application No.: 11/644,455	- 1 -	Docket No.: 8689P027

Apple v. Uniloc

Page 140 of 251

PATENT

Apple Ex. 1002

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## BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: December 11, 2008

/Benjamin A. Kimes/ Benjamin A. Kimes Reg. No. 50,870

1279 Oakmead Parkway Sunnyvale, CA 94085-4040 (408) 720-8300

Application No.: 11/644,455

Docket No.: 8689P027

Apple v. Uniloc

Page 141 of 251

Substitute for Form 1449/PTO				Complete	if Known	
INFORMATION DISCLOSURE					Application Number	11/644,455
				Filing Date	December 22, 2006	
	STATE	EME	ENT BY APPLICAN	Т	First Named Inventor:	Philippe Kahn, et al.
		(use as	s many sheets as necessary)	Art Unit	2856	
					Examiner Name	KWOK, HELEN C
Sheet	1		of	1	Attorney Docket Number	8689P027
	•				3	
Examiner Initials*	Cite No.1	Num	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-	4,285,041	8/18/1981	Smith	
		US-	7,387,611	6/17/2008	Inoue et al.	
		US-	2007/0142715	6/21/2007	Banet et al.	
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FOREIGN PATENT DOCUMENTS										
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶				

Examiner	Date Considered	
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Electronic Acl	knowledgement Receipt	
EFS ID:	4441533	
Application Number:	11644455	
International Application Number:		
Confirmation Number:	5415	
Title of Invention:	Human activity monitoring device	
First Named Inventor/Applicant Name:	Philippe Kahn	
Customer Number:	08791	
Filer:	Benjamin Kimes/Betty Scaletta	
Filer Authorized By:	Benjamin Kimes	
Attorney Docket Number:	8689P027	
Receipt Date:	11-DEC-2008	
Filing Date:	22-DEC-2006	
Time Stamp:	19:40:45	
Application Type:	Utility under 35 USC 111(a)	

## Payment information:

Submitted with Payment			no				
File Listin	g:						
Document Number	Document Description		File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)	
1	Information Disclosure Statement Letter	86	8689P027_IDS_LTR_12-11-08.	21633	no	2	
·		pdf	c14a1d6def1d0be56a7a45cc6ba140bdc00 81b8b		-		
Warnings:							
Information:							

2	Information Disclosure Statement (IDS) Filed (SB/08)	8689P027_IDS_SB08_12-11-08. pdf	55520 	no	1				
			61620						
Warnings:									
Information	Information:								
This is not an U	ISPTO supplied IDS fillable form								
		Total Files Size (in bytes)	. 7	7153					
Total Files Size (in bytes):77153This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.New Applications Under 35 U.S.C. 111 If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.National Stage of an International Application under 35 U.S.C. 371 If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.New International Application Filed with the USPTO as a Receiving Office If a new international application is being filed and the international application includes the necessary components for 									

Attorney's Docket No. 8689P027

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In Re Application of:

Philippe Kahn, et al.

Application No.: 11/644,455

Filed: December 22, 2006

For: HUMAN ACTIVITY MONITORING DEVICE

KWOK, HELEN C Examiner:

2856 Art Unit:

Confirmation No.: 5415

Mail Stop Amendment **Commissioner for Patents** P.O. Box 1450 Alexandria, Virginia 22313-1450

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<b><u>CERTIFICAT</u></b>	TE OF ELECTRONI	NIC FILING	
I hereby certify that this correspondence is being de	eposited with the Unit	nited States Patent and Trademark Office vi	a
electronic filing through the United States Patent a December 3, 2008	nd Trademark Electro	ronic Filing System on:	
Date of Deposit			
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Name of Person Mailing Correspondence			
/Betty Scaletta/	12-03-2008		
Signature	Da	Date	
Application No.: 11/644,455	- 1 -	Docket No.: 8689P027	

Apple v. Uniloc

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Dated: December 3, 2008

/Benjamin A. Kimes/ Benjamin A. Kimes Reg. No. 50,870

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Application No.: 11/644,455

Docket No.: 8689P027

Apple v. Uniloc

Page 146 of 251

Substitute	for Form 1449	/РТО			Complete	if Known
			TION DISCLOSUR	Application Number	11/644,455	
				Filing Date	December 22, 2006	
	STATE	EME	ENT BY APPLICAN	Т	First Named Inventor:	Philippe Kahn, et al.
		(use as	s many sheets as necessary)		Art Unit	2856
					Examiner Name	Kwok, Helen C.
Sheet	1		of	2	Attorney Docket Number	8689P027
	·		U.S. PATE		S	
Examiner Initials*	Cite No.1	Num	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-	6,836,744 B1	12/28/2004	Asphahani, et al.	
		US-	6,941,239 B2	9/6/2005	Unuma, et al.	
		US-	7,382,611	2/12/2008	Klees, et al.	
		US-	2007/0063850 A1	3/22/2007	Devaul; Richard W.; et a	l.
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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶						

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)  Art Unit  Sheet  C  Sheet  C  Sheet  C  Sheet  Sheet  Sheet  C  Sheet  C  Sheet  Sheet  C  Sheet  C  Sheet  C  Sheet  Sheet  C  Sheet  Sheet Sheet  Sheet  Sheet  Sheet  Sheet  Sheet  Sheet  Sheet  Sheet  Sheet  Sheet  Sheet  Sheet  Sheet  She	Substitute f	or Form 1	449/PTO	)		Compl	ete if Known	
Filing Date       December 22, 2006         Filing Date       December 22, 2006         First Named Inventor:       Philippe Kahn, et al.         Art Unit       2856         Examiner Name       Kwok, Helen C.         Sheet       2       of       2       Attorney Docket Number       8689P027         NON PATENT LITERATURE DOCUMENTS         Examiner       Cite       Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published       T ² DAO, Ricardo, "Inclination Sensing with Thermal Accelerometers", MEMSIC, May 2002, 3 pages.       MIZELL, David, "Using Gravity to Estimate Accelerometer Orientation", Seventh IEEE International Symposium on Wearable Computers, 2003, 2 pages.         WEINBERG, Harvey, "MEMS Motion Sensors Boost Handset Reliability", June 2006, http://www.mwrf.com/Articles/Print.cfm?ArticleID=12740, February 21,		RMA	ΓΙΟΝ	DISC		Application Number	11/644,455	
(use as many sheets as necessary)       Art Unit       2856         Know provide the state of the state						Filing Date	December 22, 2006	
Att Onit     2856       Examiner Name     Kwok, Helen C.       Sheet     2     of     2     Attorney Docket Number     8689P027       Examiner Initials*     Cite No ¹ Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published     T ² DAO, Ricardo, "Inclination Sensing with Thermal Accelerometers", MEMSIC, May 2002, 3 pages.     MIZELL, David, "Using Gravity to Estimate Accelerometer Orientation", Seventh IEEE International Symposium on Wearable Computers, 2003, 2 pages.     WEINBERG, Harvey, "MEMS Motion Sensors Boost Handset Reliability", June 2006, http://www.mwrf.com/Articles/Print.cfm?ArticleID=12740, February 21,	SIA					First Named Inventor:	Philippe Kahn, et al.	
Sheet       2       of       2       Attorney Docket Number       8689P027         NON PATENT LITERATURE DOCUMENTS         Examiner Initials*       Cite No ¹ Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published       T ² DAO, Ricardo, "Inclination Sensing with Thermal Accelerometers", MEMSIC, May 2002, 3 pages.       DAO, Ricardo, "Using Gravity to Estimate Accelerometer Orientation", Seventh IEEE International Symposium on Wearable Computers, 2003, 2 pages.         WEINBERG, Harvey, "MEMS Motion Sensors Boost Handset Reliability", June 2006, http://www.mwrf.com/Articles/Print.cfm?ArticleID=12740, February 21,	(use as many sheets as necessary)			ssary)	Art Unit	2856		
NON PATENT LITERATURE DOCUMENTS         Examiner Initials*       Cite No ¹ Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published       T ² DAO, Ricardo, "Inclination Sensing with Thermal Accelerometers", MEMSIC, May 2002, 3 pages.       DAO, Ricardo, "Using Gravity to Estimate Accelerometer Orientation", Seventh IEEE International Symposium on Wearable Computers, 2003, 2 pages.         WEINBERG, Harvey, "MEMS Motion Sensors Boost Handset Reliability", June 2006, http://www.mwrf.com/Articles/Print.cfm?ArticleID=12740, February 21,					1	Examiner Name	Kwok, Helen C.	
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IEEE International Symposium on Wearable Computers, 2003, 2 pages.           WEINBERG, Harvey, "MEMS Motion Sensors Boost Handset Reliability", June 2006, http://www.mwrf.com/Articles/Print.cfm?ArticleID=12740, February 21,						nsing with Thermal Accelero	ometers", MEMSIC, May	
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Examiner	Date	
Signature	Considered	

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

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Electronic Ack	knowledgement Receipt
EFS ID:	4391729
Application Number:	11644455
International Application Number:	
Confirmation Number:	5415
Title of Invention:	Human activity monitoring device
First Named Inventor/Applicant Name:	Philippe Kahn
Customer Number:	08791
Filer:	Benjamin Kimes/Betty Scaletta
Filer Authorized By:	Benjamin Kimes
Attorney Docket Number:	8689P027
Receipt Date:	03-DEC-2008
Filing Date:	22-DEC-2006
Time Stamp:	20:06:22
Application Type:	Utility under 35 USC 111(a)

# Payment information:

Submitted wi	th Payment	no								
File Listing:										
Document Number	Document Description		File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)				
1	Information Disclosure Statement Letter	86	89P027_IDS_LTR_12-03-08. pdf	21615 649c7a6a16ba4d5da0972f6aa1243c0e142f 088e	no	2				
Warnings:										
Information:										

2	Information Disclosure Statement (IDS)	8689P027_IDS_SB08_12-03-08.	67204	no	2				
2	Filed (SB/08)	pdf	e1e62dd44e7bbba7e2b4b074cda4bff788c b9378	110	2				
Warnings:									
Information:									
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3	NPL Documents	8689P027_IDS_NPL_12-03-08_	155691	no	3				
		DAO.PDF	d88934ad3b9c36d4cb43d81824f236c9423 fc0c9						
Warnings:									
Information:									
4	NPL Documents	8689P027_IDS_NPL_12-03-08_	116960	no	2				
		MIZELL.PDF	5c0775eb23dd770bf817769aa5655ce7b55 ae6ed						
Warnings:									
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5	NPL Documents	8689P027_IDS_NPL_12-03-08_ WEINBERG.PDF	260885	no	4				
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Warnings:									
Information:									
		Total Files Size (in bytes)	. 62	22355					
Total Files Size (in bytes):622355This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.New Applications Under 35 U.S.C. 111 If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.National Stage of an International Application under 35 U.S.C. 371 If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/D0/E0/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.New International Application Filed with the USPTO as a Receiving Office If a new international application is being filed and the international application includes the necessary components for an international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.									
characterized Post Card, as <u>New Applica</u> If a new appl 1.53(b)-(d) an Acknowledg <u>National Star</u> If a timely su U.S.C. 371 an national stag <u>New Internat</u> If a new inter an international second	d by the applicant, and including page described in MPEP 503. <u>tions Under 35 U.S.C. 111</u> ication is being filed and the applica and MPEP 506), a Filing Receipt (37 CF ement Receipt will establish the filin ge of an International Application ur bmission to enter the national stage and other applicable requirements a F ge submission under 35 U.S.C. 371 wi <u>tional Application Filed with the USP</u> mational application is being filed ar onal filing date (see PCT Article 11 an ternational Filing Date (Form PCT/RC urity, and the date shown on this Ack	ge counts, where applicable. tion includes the necessary of R 1.54) will be issued in due g date of the application. <u>Ider 35 U.S.C. 371</u> of an international applicati orm PCT/DO/EO/903 indicati Il be issued in addition to the <u>TO as a Receiving Office</u> and the international applicat d MPEP 1810), a Notification D/105) will be issued in due c	It serves as evidence components for a filin course and the date s on is compliant with f ng acceptance of the e Filing Receipt, in du ion includes the nece of the International / ourse, subject to pres	of receipt s g date (see hown on th the condition e course. ssary comp Application scriptions co	imilar to a 37 CFR is ons of 35 as a onents for Number oncerning				



Examiner: Not Yet Assigned

2856

Art Unit:

Attorney's Docket No. 7538.P027

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BRe Application of:

AUG 1 3 2007

Philippe Kahn

Application No.: 11/644,455

Filed: December 22, 2006

For: HUMAN ACTIVITY MONITORING DEVICE

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

# INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or

PTO/SB/08 together with copies of the documents cited on that form, except for

copies not required to be submitted (e.g., copies of U.S. patents and U.S.

published patent applications need not be enclosed). It is respectfully requested

that the cited documents be considered and that the enclosed copy of

Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the

Examiner to indicate such consideration and a copy thereof returned to

applicant(s).

Pursuant to 37 C.F.R. § 1.97, the submission of this Information

Disclosure Statement is not to be construed as a representation that a search

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on <u>August 9, 2007</u>. (Date of Deposit) <u>Alma Goldchain</u> (Typed or printed nor e of person mailing correspondence) (Signature of person mailing correspondence) (Date)

- 1 -

LJV/cak (10/27/04)

has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

**X** 37 C.F.R. §1.97(b).

_____ 37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is <u>one</u> of the following:

A statement pursuant to 37 C.F.R. §1.97(e) or

A check for \$<u>180.00</u> for the fee under 37 C.F.R. § 1.17(p).

____ 37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:

- (1) A statement pursuant to 37 C.F.R. §1.97(e); and
- (2) A check for \$<u>180.00</u> for the fee under 37 C.F.R. §1.17(p) for submission of the Information Disclosure Statement.

If there are any additional charges, please charge Deposit Account No.

02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: August 9, 2007

en

Benjamin A. Kimes Reg. No. 50,870

1279 Oakmead Parkway Sunnyvale, CA 94085-4040 (408) 720-8300

- 2 -

Substitute for Form 1449/PTO					Complete if Known		
INFORMATION DISCLOSURE				F	Application Number 11/644,455		
O ^{VPE} STATEMENT BY APPLICANT					Filing Date	December 22, 2006	
					First Named Inventor:	Philippe Kahn	
	. 9 2007	(use as	many sheets as necessary)		Art Unit	2856	
( AUG	1 3 2007 y				Examiner Name	Not Yet Assigned	
Sheet	1		of	3	Attorney Docket Number	7538.P027	
Non.	ADEN		U.S. PATEN		S		
Examiner Initials*	Cite No.1	Num	Document Number ber-Kind Code ² (If known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
·		US-	4,578,769	3/25/1986	Frederick		
		US-	5,446,725	8/29/1995	Ishiwatari		
		US-	5,976,083	11/2/1999	Richardson, et al.		
		US-	6,135,951	10/24/2000	Richardson, et al.		
		US-	6,145,389	11/14/2000	Ebeling, et al.		
		US-	6,539,336	3/25/2003	Vock, et al.		
		US-	6,790,178	9/14/2004	Mault, et al.		
		US-	6,823,036	11/23/2004	Chen		
		US-	6,885,971	4/26/2005	Vock, et al.		
		US-	6,898,550	5/24/2005	Blackadar, et al.		
		US-	6,959,259	10/25/2005	Vock, et al.		
		US-	7,072,789	7/4/2006	Vock, et al.		
		US-	7,092,846	8/15/2006	Vock, et al.		
		US-	7,148,797	12/12/2006	Albert		
		US-	7,158,912	1/20/2007	Vock, et al.		

	FOREIGN PATENT DOCUMENTS											
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶						

Examiner	Date Considered	
Signature		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at <u>www.uspto.gov</u> or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS.

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Substitut	e for Form 1449/PTO			Complete	if Known
		TION DISCLOS	Application Number	11/644,455	
			Filing Date	December 22, 2006	
	STATEME	ENT BY APPLIC	First Named Inventor:	Philippe Kahn	
	(use as	s many sheets as necessary)	Art Unit	2856	
				Examiner Name	Not Yet Assigned
Sheet	2	of	3	Attorney Docket Number	7538.P027

			U.S. PATE	NT DOCUMENTS	3	
Examiner Initials*	Cite No.'	Numbe	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		US-	7,171,331	1/30/2007	Vock, et al.	
		US-	7,200,517	4/3/2007	Darley, et al.	
		US-	7,212,943	5/1/2007	Aoshima, et al.	
		US-	7,220,220	5/22/2007	Stubbs, et al.	
		US-	2002/0109600	8/15/2002	Mault, James R.; et al.	
		US-	2002/0151810	10/17/2002	Wong, Philip Lim-Kong; et al.	
		US-	2005/0240375	10/27/2005	Sugai, Yoshinori	
		US-	2005/0248718	11/10/2005	Howell, Thomas A., et al.	
		US-	2006/0136173	6/22/2006	Charles Whipple JR.; et al.	
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		FO	REIGN PATEN	T DOCUMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶

Examiner	Date Considered	
Signature		

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Substitute	Substitute for Form 1449/PTO		Compl	ete if Known		
			CLOSURE	Application Number	11/644,455	
				Filing Date	December 22, 2006	
STA			PPLICANT	First Named Inventor:	Philippe Kahn	
	(use as i	many sheets as ne	ecessary)	Art Unit	2856	
	·····			Examiner Name	Not Yet Assigned	
Sheet	3	of	3	Attorney Docket Number	7538.P027	
			NON PATENT LIT	ERATURE DOCUMENTS		
Examiner Initials*	Cite No ¹	Include name item (boo	k, magazine, journal, se	AL LETTERS), title of the article ( rial, symposium, catalog, etc.), da isher, city and/or country where p	ite, page(s), volume-issue	T2
				ition of Walking Behaviors for I ications Research Laboratorie		
	ORMONEIT, D., et al., "Learning and Tracking Cyclic Human Motion," 7 pages.					
					:	

Examiner	Date	
Signature	Considered	

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Based on Form PTO/SB/08B (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/10/03.

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		United States Address: COMMIS P.O. Box 1	Virginia 22313-1450
APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
11/644,455	12/22/2006	Philippe Kahn	07538.P027 CONFIRMATION NO. 541

#### 8791 BLAKELY SOKOLOFF TAYLOR & ZAFMAN 1279 OAKMEAD PARKWAY SUNNYVALE, CA 94085-4040

Date Mailed: 06/29/2007

### NOTICE REGARDING NONPUBLICATION REQUEST

The receipt of a nonpublication request filed under 35 U.S.C. 122(b)(2)(B)(i) with the above-identified application is acknowledged. The application will not be scheduled for publication.

Applicant may rescind the nonpublication request at any time. If applicant subsequently rescinds the nonpublication request, the above-identified application will be scheduled for publication at the later of eighteen (18) months from the earliest filing date claimed or fourteen (14) weeks from the date that the Office recognizes the rescission.

If applicant subsequently files an application directed to the invention disclosed in the above-identified application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).** 

Any response to this notice must be directed to the Pre-Grant Publication Division via facsimile at (703) 305-8568. Questions regarding this notice may be directed to the Pre-Grant Publication Division at (703) 605-4283.

Attorney's Docket No. 7538P027

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Philippe Kahn, et al.

Application No.: 11/644,455

Filed: December 22, 2006

For: Human Activity Monitoring Device

Examiner: Not yet assigned

Art Unit: 2856

Conf. No.: 5415

**CERTIFICATE OF MAILING/TRANSMISSION** I hereby certify that this correspondence is being submitted electronically via EFS Web on the date shown below.

PATENT

/Judith A. Szepesi/ June 25, 2007 Judith A. Szepesi Date

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# REQUEST FOR CORRECTED FILING RECEIPT

Sir:

On April 27, 2007, we received the Updated Filing Receipt in connection

with the above-identified patent application (copy enclosed).

However, the following information needs to be corrected due to a PTO

error. Please change:

# FROM:

Non-Publication Request: No

TO:

Non-Publication Request: Yes

11/644,455

Page 1 of 2

7538P027

Apple v. Uniloc

Page 157 of 251

Apple Ex. 1002

Also attached are the stamped postcard receipt for the original filing indicating that the Non-Publication Request was submitted, and the copy of the signed Non-Publication Request Under 35 U.S.C. 122(b)(2)(B)(i) submitted with the original application.

If any additional fee is required, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: June 25, 2007

/Judith A. Szepesi/ Judith A. Szepesi Reg. No. 39,393

1279 Oakmead Parkway Sunnyvale, CA 94085-4040 (408) 720-8300

11/644,455

	<u>United State</u>		AND TRADEM	UNITED S United St DB Address: COM POL 1 Adex	STATES DEPARTMENT OF C ates Patent and Trademark ( MISSIONER FOR PATENTS Box1450 matra, Viginia 22313-1450 uppto.gov	
APPL NO.	FILING OR 371(c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	TOT CLMS	IND CLMS
11/644,455 ~	12/22/2006	2856	1330 ⁄	07538.P027	20 🗸	4 🗸
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BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP LOS ANGELES Date Mailed: 04/27/2007

Page 1 of 3

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Philippe Kahn, Aptos, CA; Arthur Kinsolving, Santa Cruz, CA; Mark Andrew Christensen, Santa Cruz, CA; Brian Y. Lee, Aptos, CA; David Vogel, Santa Cruz, CA;

Power of Attorney: The patent practitioners associated with Customer Number 08791.

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted: 01/27/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is US11/644,455

Projected Publication Date: 06/26/2008

Yes Non-Publication Request: <del>No×</del>

Early Publication Request: No X

Human activity monitoring device 🗸

#### **Preliminary Class**

Title

073

#### **PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES**

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

# LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

#### GRANTED

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Apple v. Uniloc

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

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# R^{eceive}D

# JAN 0 8 2007

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP LOB ANGELES

Application No: Not yet Filing/Issue Date: Filing/Issue Pate: Filing/I	
First Named Inventor: PhBppo Sata <u>The following has been received in the U.S.P.T.O. on th</u> Express Malt No. EV 397 652 066 US Utility Transnatal	Amendment (pgs.)
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escription: month deadline to file prior art disclosure and check related cases based on filed US application).	F/F letter
/8/2007 Casey Hayes 638494	1/8/2007 Casey Hayes 638495

7538, PO27 Fullpower Tech JAS

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NONPUBLICATION REQUEST UND	ER 35 U.S.C. 122(b)(2)(B)(i)
First Named Inventor <u>Philippe Kahn</u> Title <u>HUMAN ACTIVITY MONITORING DEVICE</u> Attorney Docket No. <u>7538.P027</u>	
I hereby certify that the invention disclosed in the attached of an application filed in another country, or under a multila eighteen months after filing.	application <b>has not and will not be</b> the subjec teral agreement, that requires publication at
I hereby request that the attached application not	be published under 35 U.S.C. 122(b).
December 22, 2006 Date	By Signature
(408) 720-8300 Telephone Number	Benjamin A. Kimes Typed or Printed Name
	50,870 Registration No.
This request must be signed in compliance with 37 CFR 1.3 filing.	3(b) and submitted with the application <b>upon</b>
Applicant may rescind this nonpublication request at any tim application not be published under 35 U.S.C. 122(b), the application months from the earliest claimed filing date for white the earliest	plication will be scheduled for publication at
If applicant subsequently files an application directed to the i in another country, or under a multilateral international agree eighteen months after filing, the applicant <b>must</b> notify the Ur such filing within forty-five (45) days after the date of the filing <b>Failure to do so will result in abandonment of this applic</b>	ment, that requires publication of applications hited States Patent and Trademark Office of g of such foreign or international application.

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- 3 -

Based on Form PTO/SB/35 (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/12/03.

Electronic Acl	knowledgement Receipt
EFS ID:	1908251
Application Number:	11644455
International Application Number:	
Confirmation Number:	5415
Title of Invention:	Human activity monitoring device
First Named Inventor/Applicant Name:	Philippe Kahn
Customer Number:	8791
Filer:	Judith A. Szepesi/Joan Abriam
Filer Authorized By:	Judith A. Szepesi
Attorney Docket Number:	07538.P027
Receipt Date:	25-JUN-2007
Filing Date:	22-DEC-2006
Time Stamp:	19:25:21
Application Type:	Utility

# Payment information:

Submitted with Payment	no
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# File Listing:

Document Number	Document Description	File Name	File Size(Bytes)	Multi Part /.zip	Pages (if appl.)
1	Request for Corrected Filing Receipt	7538P027_Request_for_Cor rected_Filing_Receipt.pdf	705794	no	7
Warnings:					

Information:	
Total Files Size (in bytes):	705794

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

#### New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

#### National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

United S	States Paten	it and Trad	emark Office	UNITED STATES DEPARTM United States Patent and Tra Addres: COMMISSIONER FOR PA PO. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov	demark Office	E
APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
11/644,455	12/22/2006	2856	1330	07538.P027	20	4
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Date Mailed: 04/27/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

LOS ANGELES, CA90025-1030

Philippe Kahn, Aptos, CA; Arthur Kinsolving, Santa Cruz, CA; Mark Andrew Christensen, Santa Cruz, CA; Brian Y. Lee, Aptos, CA; David Vogel, Santa Cruz, CA;

Power of Attorney: The patent practitioners associated with Customer Number 08791

Domestic Priority data as claimed by applicant

**Foreign Applications** 

If Required, Foreign Filing License Granted: 01/27/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US11/644,455** 

Projected Publication Date: 06/26/2008

Non-Publication Request: No

Early Publication Request: No

Title

Human activity monitoring device

#### Preliminary Class

073

#### **PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES**

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

# LICENSE FOR FOREIGN FILING UNDER

#### Title 35, United States Code, Section 184

#### Title 37, Code of Federal Regulations, 5.11 & 5.15

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This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the

subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

#### NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

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8791 BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES, CA 90025-1030

Date Mailed: 01/29/2007

**CONFIRMATION NO. 5415** 

LETTER

FORMALITIES

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

#### FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

#### Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

• The oath or declaration is unsigned.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

• To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

#### SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is \$130 for a non-small entity

• \$130 Surcharge.

Replies should be mailed to: Mail Stop Missing Parts 04/03/2007 CNGUYEN2 00000065 11644455 01 FC:1051 130.00 0P Alexandria VA 22313-1450

Apple v. Uniloc

Apple Ex. 1002

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <u>http://www.uspto.gov/ebc.</u>

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

Office of Initial Patent Examination (571) 272-4000, or 1-800-PTO-9199, or 1-800-972-6382 PART 2 - COPY TO BE RETURNED WITH RESPONSE

BIBE	
APR U 2 2007 3	
TRANSMITTAL	PATENT
Aburtaniania: 11/644.455	
Filing Date: December 22, 2006	
First Named Inventor <u>Philippe Kahn et al.</u>	
Examiner's Name: <u>not yet assigned</u>	
Attorney Docket No.: 07538.P027	
An Amendment After Final Action (37 CFR 1.116) is attach X Charge any fee not covered by any check submitted to De	
X Applicant(s) hereby request and authorize the U.S. Patent	
future reply that requires a petition for extension of time appropriate length of time and (2) charge all required fee CFR 1.16 and 1.17, for any concurrent or future reply to Applicant(s) claim small entity status (37 CFR 1.27).	as incorporating a petition for extension of time for the s, including extension of time fees and fees under 37
ATTACHMENTS Preliminary Amendment	
Amendment/Response with respect to Office Action	
Amendment/Response After Final Action (37 CFR 1.116) (re	ninder: consider filing a Notice of Appeal)
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RCE (Request for Continued Examination)	
Supplemental Declaration	
Terminal Disclaimer (reminder: if executed by an attorney, th	e attorney must be properly of record)
Information Disclosure Statement (IDS)	
Copies of IDS citations	
Petition for Extension of Time	
X Fee Transmittal Document (that includes a fee calculation ba	sed on the type and number of claims)
Cross-Reference to Related Application(s)	
Cross-Reference to Related Application(s) Certified Copy of Priority Document	
X Other: Response to Notification To File Missing Parts and	signed declaration
X Other: Copy of Notification To File Missing Parts	
X Check(s)	
X Postcard (Return Receipt)	
SUBMITTED BY:	
BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP	
TYPED OR PRINTED NAME: Benjamin A. Kimes	
REG. NO.:	
DATE: 3/29/07	
ADDRESS: 12400 Wilshire Boulevard, Seventh Floor	
Los Angeles, California 90025	
TELEPHONE NO.: (408) 720-8300	
CERTIFICATE OF MAILING BY FIRST C	LASS MAIL (if applicable)
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	Date			ember 22, 2006	
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		et No.		38.P027	
	_	Applic	ant clai	ms small entity status. See 37 CFR 1.27.	
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Warning	a: inform	ation on tl	his form	may become public. Credit card information should not be include	ded on this
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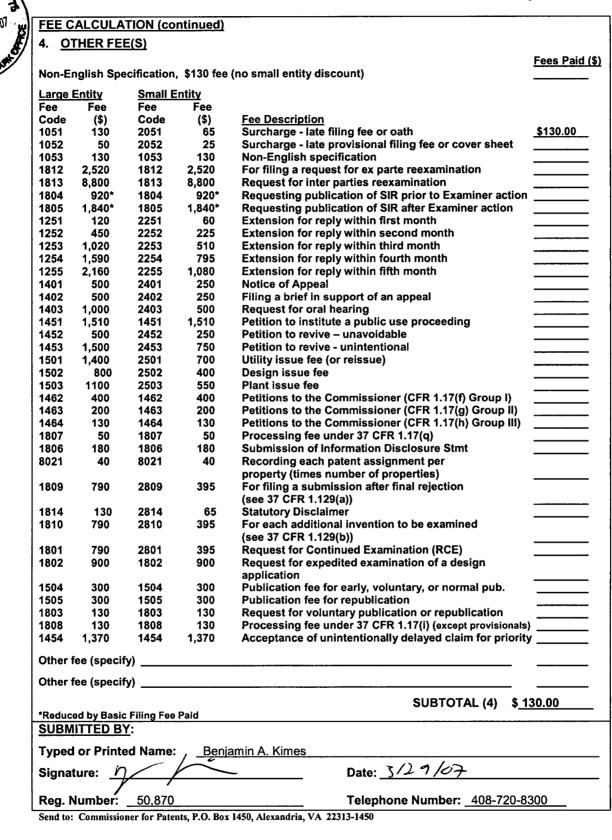
- 1 -Based on Form PTO/SB/17 (02-07) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 2/20/07

2. EXCESS (		<u> </u>				
Fee Descript						
Large Entity Fee Fee	<u>Small E</u> Fee	<u>ntity</u> Fee				
Code (\$)		(\$) <u>Fee Descrip</u>	tion			
1202 50	2202	25 Each claim				
1201 200	2201		endent claim over 3			
1203 360	2203	180 Multiple dep	pendent claims, if not paid			
1204 200	2204		ch claim over 20 and more t			
1205 50	2205	25 Reissue: ea	ch independent claim more	than in t	he original	patent
			Extra Claims	Fee	•	Fees Paid
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HP = highest	number of t	total claims paid for, if				
Independent	Claims _	– 3 or HP		Х	=_	
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3. APPLICAT				SUBTO	ΓAL (2) \$	0.00
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Page 3 of 3



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Attorney's Docket No. 07538.P027

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Philippe Kahn

Application No.: 11/644,455

Filed: December 22, 2006

For: HUMAN ACTIVITY MONITORING DEVICE Examiner: not yet assigned

Art Unit: 2856

Mail Stop Missing Parts Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

# RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION (FILING DATE GRANTED)

Sir:

In response to the Notice to File Missing parts of Application (Filing Date

Granted) mailed January 29, 2006, please find enclosed:

(1) a duly executed Declaration and Power of Attorney with respect to

the above-referenced patent application;

(2) a check in the amount of \$130.00 in payment of the surcharge of

37 C.F.R. § 1.16(e); and

(3) a copy of the Notice to File Missing Parts of Application.

(LJV/cak 05/01/03)

If any additional fee is required, please charge Deposit Account No. 02-2666. A duplicate of the Fee Transmittal is enclosed for deposit account charging purposes.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: 3129/07

Behjamin A. Kimes Reg. No. 50,870

12400 Wilshire Blvd. Seventh Floor Los Angeles, CA 90025 (408) 720-8300

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to: Mail Stop Missing Parts, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on <u>March 29, 2007</u>

	(Date of Deposit)
Shannon Tinsley	
(Typed or printed name of person mailing of	xorrespondence) 29 UT
(Signature of person mailing corresponder	ce)

- 2 -

(LJV/cak 05/01/03)

2. EXCESS CLAIM FEES	
Fee Description	
Large Entity Small Entity Fee Fee Fee Fee	
Code (\$) Code (\$) Fee Description	
1202 50 2202 25 Each claim over 20	
1201 200 2201 100 Each independent claim over 3	
1203 360 2203 180 Multiple dependent claims, if not paid	
1204 200 2204 100 Reissue: each claim over 20 and more than in the original patent	
1205 50 2205 25 Reissue: each independent claim more than in the original patent	
Extra Claims Fee Fees Paid (\$)	
Total Claims 20 or HP = X =	
HP = highest number of total claims paid for, if greater than 20	
Independent Claims 3 or HP = X =	
HP = highest number of independent claims paid for, if greater than 3	
Multiple Dependent Claims =	
SUBTOTAL (2) \$ <u>0.00</u>	
3. <u>APPLICATION SIZE FEE</u> If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 C.F.R. 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).	
Number of each additional         Fee from           Total Sheets         50 or fraction thereof         below         Fees paid (\$)	
	l
100 = / 50 = (round up to whole number) X <u>\$</u>	
Large Entity Small Entity	
Fee Fee Fee Fee Fee Fee Description: Application size fee for each additional group of 50 sheets	3
Code (\$) Code (\$) beyond initial 100 sheets (count spec & drawings except sequences & program listing	
1081 250 2081 125 Utility 1082 250 2082 125 Decim	
1082 250 2082 125 Design 1083 250 2083 125 Plant	
1083 250 2083 125 Plant 1084 250 2084 125 Reissue	
SUBTOTAL (3) \$ <u>0.00</u>	

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FEE (	CALCULA	TION (co	ntinued)		
4. <u>O</u>	THER FE	E <u>(S)</u>			
					Fees Paid (\$)
Non-E	English Spe	cification	, \$130 fee	(no small entity discount)	·····
1 arme	Entity	Small E	Intity		
Fee	Fee	Fee	Fee		
Code	(\$)	Code	(\$)	Fee Description	
1051	130	2051	65	Surcharge - late filing fee or oath	\$130.00
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1813	8,800	1813	8,800	Request for inter parties reexamination	<u> </u>
1804	920* 1.840*	1804 1805	920* 1,840*	Requesting publication of SIR prior to Examiner action Requesting publication of SIR after Examiner action	
1251	1,840	2251	60	Extension for reply within first month	······
1252	450	2252	225	Extension for reply within second month	<u> </u>
1253	1,020	2253	510	Extension for reply within third month	
1254	1,590	2254	795	Extension for reply within fourth month	
1255	2,160	2255	1,080	Extension for reply within fifth month	
1401	500	2401	250	Notice of Appeal	
1402	500	2402	250	Filing a brief in support of an appeal	
1403	1,000	2403	500	Request for oral hearing	
1451	1,510	1451 2452	1,510	Petition to institute a public use proceeding Petition to revive – unavoidable	
1452 1453	500 1,500	2452	250 750	Petition to revive - unintentional	
1455	1,400	2400	700	Utility issue fee (or reissue)	
1502	800	2502	400	Design issue fee	
1503	1100	2503	550	Plant issue fee	
1462	400	1462	400	Petitions to the Commissioner (CFR 1.17(f) Group I)	
1463	200	1463	200	Petitions to the Commissioner (CFR 1.17(g) Group II)	
1464	130	1464	130	Petitions to the Commissioner (CFR 1.17(h) Group III)	<u> </u>
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	790	2809	395	For filing a submission after final rejection	
			••••	(see 37 CFR 1.129(a))	
1814	130	2814	65	Statutory Disclaimer	
1810	790	2810	395	For each additional invention to be examined	
				(see 37 CFR 1.129(b))	
1801	790	2801	395	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design	
1504	300	1504	300	application Rublication for for early voluntary or normal pub	
1504	300	1504	300	Publication fee for early, voluntary, or normal pub. Publication fee for republication	
1803	130	1803	130	Request for voluntary publication or republication	
1808	130	1808	130	Processing fee under 37 CFR 1.17(i) (except provisionals)	
1454	1,370	1454	1,370	Acceptance of unintentionally delayed claim for priority	
Other		л			
Other	fee (specify	//			
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*Roduc	ed by Basic	Filing Fee	Paid	SUBTOTAL (4) \$ <u>13</u>	0.00
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	RO2200	A CONCENTRATION OF THE OWNER						·		
Attorney Docket No.:07538.P027							Patent			
Firs	st Named	I Inventor:	Philippe Kahn et a	al						
Check One:					Complete	lf Known:				
			Submitted with		, ,	No.:				
	¥	Initial Filing	Submitted After	OR		):				
			(Surcharge unde	r		Name:				
	•		1.16(e) Required							

#### DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION

#### I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled: HUMAN ACTIVITY MONITORING DEVICE

(Title of the Invention) the specification of which is attached hereto OR was filed on (12/26/2006) as United States Application Number 11/644.455 or PCT International Application Number _____

and was amended on (MM/DD/YYYY) __________(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filling date of the prior application and the national or PCT international filling date of the BSTZ ONLY (LONG FORM) -1-Rev. 07/01/04

03/20/07 TUE 19:39 [TX/RX NO 9588]

Page 179 of 251

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## continuation-in-part application.

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BSTZ ONLY (LONG FORM) Rev. 07/01/04

03/20/07 TUE 19:39 [TX/RX NO 9588]

Apple v. Uniloc

Page 180 of 251

Apple Ex. 1002

FULLPOWER

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)				Priority Certified Claimed? Copy Atta		
(Number)	(Country)	(Foreign Filing Date - MM/DD/YYYY)	Yes	No	Yes	No
(Number)	(Country)	(Foreign Filing Date - MM/DD/YYYY)	Yes	No	Yes	No
(Number)	(Country)	(Foreign Filing Date - MM/DD/YYYY)	Yes	No	Yes	No

#### **Appointment of Patent Practitioners:**

I hereby appoint the patent practitioners associated with the Customer Number <u>08791</u>, as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.

If this patent application is assigned, then the undersigned hereby authorizes the patent attorneys and patent agents named herein to accept and follow instructions from the assignee(s) as to any action to be taken in the United States Patent and Trademark Office regarding this application without direct communication between the patent attorneys and patent agents and the undersigned. In the event of a change in the persons from whom instructions may be taken, at least one patent attorney or patent agent named herein will be so notified by the undersigned.

Direct all correspondence to (check one):

#### <u>X</u> Customer Number 08791 OR

____ Correspondence Address Below:

Benlamin A. Kimes (Name of Attorney or Agent) BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 12400 Wilshire Boulevard Seventh Floor Los Angeles, California 90025 U.S.A. Telephone: (408) 720-8300 Fax: (408) 720-8383 -3-

BSTZ ONLY (LONG FORM) Rev. 07/01/04

03/20/07 TUE 19:39 [TX/RX NO 9588]

Page 181 of 251

Apple Ex. 1002

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wiliful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR: A petition has been filed for this unsigned inventor

Full Name:	ppe Kahn (Given Name (First and Middle (if	and) Esmily Name (ar	Sumama) and Sutting (it and)
Inventor's Signatu			$\frac{30}{2} - \frac{3}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2}$
Residence Aptos.	CA. USA	Citizenship	USA
	(City, State, Country)	·	(Country)
•	777 Hudson Lane Aptos, CA 95003		
NAME OF SECON	ID INVENTOR: A petition	has been filed for t	his unsigned inventor
Full Name:Arth	ur Kinsolving		
	(Given Name (First and Middle (if	any]), Family Name (or	Surname), and Suffix [il any])
Inventor's Signatu	re	D	)ate
Desidence Conte		Citizenship	1104
Residence <u>Santa</u>	Cruz, CA, USA (City, State, Country)	Citizensnip	(Country)
	(Chy, State, Coshey)		(Country)
Mailing Address	122 Fairview Place		
	Santa Cruz, CA 95062		
NAME OF THIRD	INVENTOR: C A petition ha	s been filed for this	s unsigned inventor
			<b>J</b>
Full Name: Mar	k Andrew Christensen		
	(Given Name (First and Middle [il	any]), Family Name (or	r Surname), and Suffix [if any])
		-	
inventor's Signatu	re	L	Date
Residence Santa	Cruz. CA. USA	Citizenshir	New Zeeland
nesidence <u>Sama</u>	(City, State, Country)	Otazenanış	(Country)
Mailing Address	215 Anchorage Ave		
BSTZ ONLY (LOI Rev. 07/01/04	NG FORM)	- <b>4</b> -	

03/28/07 WED 18:11 [TX/RX NO 9798]

Page 182 of 251



I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR: 
A petition has been filed for this unsigned inventor

Full Name: _Phil		First and Middle (if anvi).	Family Name (or Su	mame), and Suffix [if any])
Inventor's Signatu			•	·
				CA
Residence Aptos	(City, State, Countr	Y)		(Country)
Mailing Address	777 Hudson Lan Aptos, CA 95003			
NAME OF SECO	ND INVENTOR:	A petition has I	been filed for this	unsigned inventor
Full Name:Arth	ur Kinsolving (Given Name (F	irst and Middle (if any)).	Family Name (or Sur	name), and Sulfix [it any])
Inventor's Signatu			Date	3/21/07
Residence <u>Santa</u>	Cruz, CA. USA (City, State, Country)	Ŵ	Citizenship _US	Country)
Mailing Address	122 Fairview Plac Santa Cruz, CA 9			
NAME OF THIRD Full Name: <u>Mar</u>	c Andrew Christen	rst and Middle [II any]),		signed inventor
Inventor's Signatur	e	Matusa	Date	3/20/07
Residence <u>Santa</u>	Cruz. CA. USA (City, State, Country)		_ Citizenship <u>Ne</u>	w Zealand (Country)
Mailing Address BSTZ ONLY (LON Rev. 07/01/04		<u>-4-</u>		

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Apple Ex. 1002

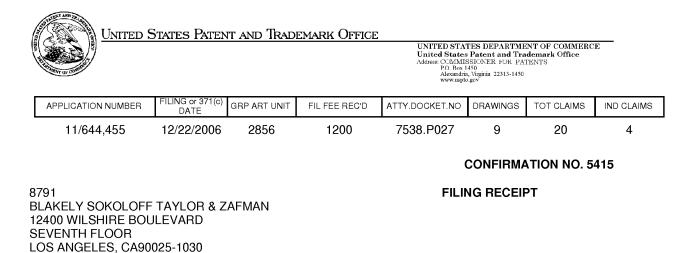
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	•						
		<u>Santa C</u>	Druz, CA 95062				
				· · · · · · · · ·			
	NAME OF FOUR	RTH INVE	NTOR: A petition has been	n filed for this unsigned inv	entor		
	Full Name: <u>Br</u>	ian Y. Lee (Giv	en Name (First and Middle (if any)), Fam	ity Name (or Surname), and Suff.	ix (il any))		
	Inventor's Signat	ture <u> </u>		Date3/7.6	2007		
	Residence <u>Apto</u>		AC ste, Country)	itizenship <u>USA</u> (Cor	Intry)		
	Mailing Address	<u>.777 Huc</u> Aptos, C					
		ADIOS. C					
			DR: 🔲 A petition has been file	d for this unsigned invento	r		
	Full Name: <u>Da</u>	vid Vogel (Give	en Name (First and Middle [if any]), Fam	ly Name (or Surname), and Suffi	x (if any])		
	Inventor's Signati	ur	Jup-	Date <u>3/20/</u>	07		
	Residence Santa	a Cruz, CA (Chy, Stu	LUSAC	itizenship <u>USA</u> (Cou	ntry)		
	Mailing Address	<u>600 Bee</u> Santa C	LDrive ruz, CA 95060				
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Apple Ex. 1002



Date Mailed: 01/29/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Phillippe Kahn, Aptos, CA; Arthur Kinsolving, Santa Cruz, CA; Mark Andrew Christensen, Santa Cruz, CA; Brian Y. Lee, Aptos, CA; David Vogel, Santa Cruz, CA;

Power of Attorney: None

Domestic Priority data as claimed by applicant

**Foreign Applications** 

If Required, Foreign Filing License Granted: 01/27/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US11/644,455** 

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

Title

Human activity monitoring device

### Preliminary Class

073

# **PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES**

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

# LICENSE FOR FOREIGN FILING UNDER

## Title 35, United States Code, Section 184

### Title 37, Code of Federal Regulations, 5.11 & 5.15

#### <u>GRANTED</u>

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the

subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

### NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

UNITED STAT	es Patent and Tradema	UNITED STA United State Address: COMM PO. Box Alexand	CE UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Vignins 22313-1450 www.uspto.gov		
APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER		
11/644,455	12/22/2006	Phillippe Kahn	7538.P027		

CONFIRMATION NO. 5415 FORMALITIES LETTER

8791 BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES, CA 90025-1030

Date Mailed: 01/29/2007

### NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

#### FILED UNDER 37 CFR 1.53(b)

#### Filing Date Granted

#### Items Required To Avoid Abandonment:

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

• The oath or declaration is unsigned.

The applicant needs to satisfy supplemental fees problems indicated below.

The required item(s) identified below must be timely submitted to avoid abandonment:

• To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath or declaration) as set forth in 37 CFR 1.16(f) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.

#### SUMMARY OF FEES DUE:

Total additional fee(s) required for this application is \$130 for a non-small entity

• \$130 Surcharge.

Replies should be mailed to: N

Mail Stop Missing Parts Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450

Apple v. Uniloc

Registered users of EFS-Web may alternatively submit their reply to this notice via EFS-Web. <u>https://sportal.uspto.gov/authenticate/AuthenticateUserLocalEPF.html</u>

For more information about EFS-Web please call the USPTO Electronic Business Center at **1-866-217-9197** or visit our website at <u>http://www.uspto.gov/ebc.</u>

If you are not using EFS-Web to submit your reply, you must include a copy of this notice.

BN

Office of Initial Patent Examination (571) 272-4000, or 1-800-PTO-9199, or 1-800-972-6382 PART 3 - OFFICE COPY

UNITED STAT	es Patent and Tradema		
		United State: Address: COMMI P.O. Box	n, Virginia 22313-1450
APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
11/644,455	12/22/2006	Phillippe Kahn	7538.P027

#### **CONFIRMATION NO. 5415**

8791 BLAKELY SOKOLOFF TAYLOR & ZAFMAN 12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES, CA 90025-1030

Date Mailed: 01/29/2007

# **RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT**

#### **Publication and General Rules Issues**

In response to your request for a corrected Filing Receipt, the Office is unable to comply with the request because:

- The articles such as "a", "an", and "the" are not included as the first words in the title of an application. They are considered to be unnecessary to the understanding of the title.
- The words "new", "improved", "improvement of", "improvement in", or "improvement relating to" are not included as the first words in the title of an application because a patent application is, by nature, a new idea or improvement. See MPEP 606.
- The title appears on the filing receipt in sentence case for publication in the Annual Index of Patents.
- Amendments are not accepted in provisional applications. See 37 CFR 1.53(c).
- An amendment or Application Data Sheet is needed to make this change.
- The inventor's residence will only include the city and state for U.S. residences or city and country for residences outside the U.S. (See MPEP 605.02.)
- Continuity claimed under 35 USC 120 cannot be added to the Filing Receipt without the applicant supplying the relationship (continuation, divisional, or continuation-in-part) in an Application Data Sheet or amendment to the first page of the specification.
- Small entity status was previously claimed in this application. To notify the Office of a loss of entitlement to small entity status, see 37 CFR 1.27(g). To have a good faith error in claiming small entity status excused, see 37 CFR 1.28(c).

- The request for non-publication was not timely filed. A request for non-publication must be submitted upon filing of an application. The application is scheduled to be published on the date specified on the filing receipt. See 37 CFR 1.213(a)(1)
- The request for non-publication has not been recognized because it is not conspicuous as required by 37 CFR 1.213(a)(2)
- The request for non-publication has not been recognized because it does not contain the certification as required by 37 CFR 1.213(a)(3).
- The request for non-publication has not been recognized because it is not signed in compliance with 37 CFR 1.33(b) as required by 37 CFR 1.213(a)(4).
- There was no prior request for non-publication in this application. The request to rescind the non-publication request will not be processed.
- Your request for non-publication will not be acknowledged because this application is not eligible for publication. Only utility and plant applications filed on or after November 29, 2000 are eligible for publication.
- The "Non-Publication Request" indicator is correct. If there was a proper request submitted at the time of filing, the notation on the filing receipt will be "Yes". If no such request was made, the notation will be "No".
- Assignment information will only be included for applications that are eligible for publication.

BN

Office of Initial Patent Examination (571) 272-4000, or 1-800-PTO-9199, or 1-800-972-6382

PART 3 - OFFICE COPY

O (maximum 12 characte First Named Invo Title: <u>HUMAN /</u> Express Mail La ADDRESS TO: APPLICATION	ACTIVITY MONITORING DEVICE bel No.: EV 897 652 066 US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450
O (maximum 12 characte First Named Invo Title: <u>HUMAN /</u> Express Mail La ADDRESS TO: APPLICATION	rs) entor: Philippe KahnACTIVITY MONITORING DEVICE bel No.: EV 897 652 066 US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 ELEMENTS
Title: <u>HUMAN /</u> Express Mail La ADDRESS TO: APPLICATION	ACTIVITY MONITORING DEVICE bel No.: EV 897 652 066 US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 ELEMENTS
Express Mail La ADDRESS TO: APPLICATION	bel No.: EV 897 652 066 US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 ELEMENTS
APPLICATION	P.O. Box 1450 Alexandria, Virginia 22313-1450 ELEMENTS
	Alexandria, Virginia 22313-1450
1. <u>X</u>	Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)
2	Applicant Claims Small Entity Status. (37 CFR 1.27)
3. <u>x</u>	Specification       (Total Pages
4. <u>X</u>	Drawings (35 USC 113) (Total Sheets <u>9</u> )
5. <u>X</u>	Oath or Declaration (Total Pages <u>3</u> )
	a Newly Executed (Original or Copy)
	b Copy from a Prior Application (37 CFR 1.63(d)) (for Continuation/Divisional with Box 18 completed)
	i <u>DELETIONS OF INVENTOR(S)</u> Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
	c. <u>X</u> Unsigned.
6	Application Data Sheet. (37 CFR 1.76)
7	CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8` a	Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) _ Computer Readable Form (CRF)
b	_ Specification Sequence Listing on: iCD-ROM or CD-R (2 copies); or

- 1 -

Based on Form PTO/SB/05 (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/12/03.

	ACCOMPANYING APPLICATION PARTS
<b>9</b> 10	Assignment Papers (cover sheet & documents(s)) a. Separate 37 CFR 3.73(b) Statement (where there is an assignee)
	b. Power of Attorney
11	English Translation Document (if applicable)
12	a. Information Disclosure Statement (IDS)/PTO-1449 (or PTO/SB/08)
	b. Copies of IDS Citations
13	Preliminary Amendment
14. <u>X</u>	Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15	Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. <u>X</u>	Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). <u>Applicant must attach</u> form PTO/SB/35 or its equivalent.
17A	Claim for Foreign Priority
17B. <u>X</u>	Other: Check for \$1,200 (filing fees); and Certificate of Mailing by Express Mail
below and in the	a petition for extension of time as incorporating a petition for extension of time for the appropriate length of time and (2) charge all required fees, including extension of time fees and fees under 37 C.F.R. 1.16 and 1.17, to Deposit Account No. 02-2666. <b>FINUING APPLICATION,</b> check appropriate box, and supply the requisite information a first sentence of the specification following the title (e.g., by way of preliminary r in an Application Data Sheet Under 37 C.F.R. 1.76:
Cor Of Prior Applie (which is a co which is a co Applicant(s): Al	minuation Divisional Continuation-in-part (CIP)     cation No.: Examiner Group Art Unit ontinuation/ divisional/ CIP of prior application no,     (List entire chain of priority)     so include a Preliminary Amendment to amend the specification to claim priority.     TON AND DIVISIONAL APPS only: The entire disclosure of the prior application, from which
an oath or decla continuation or	ration is supplied under Box 5b, is considered a part of the disclosure of the accompanying divisional application and is hereby incorporated by reference. The incorporation <u>can only</u> when a portion has been inadvertently omitted from the submitted application parts.
X Custom	ondence Address er Number or Bar Code Label 08791 or (Insert Customer No. or Attach Bar Code Label here) ondence Address Below Judith A. Szepesi
ADDRESS 1	BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 2400 Wilshire Boulevard Seventh Floor
CITY <u>Los Angel</u> Country <u>U.S</u>	es STATE California ZIP CODE 90025
Name (PRINT/TY Signature: <u></u>	PE): <u>Benjamin A. Kimes</u> Registration No.: <u>50,870</u> Date: <u>December 22, 2006</u>

- 2 -

Based on Form PTO/SB/05 (08-03) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 09/12/03.

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Page 1 of 3

		12/08/200	FEE TRANSMITTAL FOR FY 2006 04. Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).
		12/00/200	TOTAL AMOUNT OF PAYMENT (\$) 1,200.00
Complete if Ki	nown:		101AE AMOUNT OF TATMENT (\$) 1,200.00
Application No		Not ye	t assigned
Filing Date		Herew	
First Named Ir Examiner Nam			be Kahn
Art Unit			t assigned
Attorney Dock	et No.	7538.	
	Applic	ant claim	ns small entity status. See 37 CFR 1.27.
	PAYME	NT (cher	ck all that apply)
	k	_ Credit	t Card Money Order None Other (please identify)
Deposit	Account		
		Accoun	t Number : 02-2666
	Deposit	Accoun	t Name:
X The D			red to do the following with respect to the above-identified Deposit Account:
			ndicated below.
<u> </u>	Charge	any addit	ional fee(s) or underpayment of fee(s) during the pendency of this application.
x			ndicated below except for the filing fee rpayments.
$\frac{1}{\mathbf{x}}$			payments. or future reply that requires a petition for extension of time should be treated as
	incorpo	orating an	appropriate petition for extension of time and all required fees should be charged.
			nay become public. Credit card information should not be included on this form. authorization on PTO-2038.
FEE CALCU	ATION		
1. BASIC FIL	ING, SE	ARCH, A	AND EXAMINATION FEES
	Com all I	-	
Large Entity Fee Fee	<u>Small  </u> Fee	Fee	
Code (\$)	Code	(\$)	Fee Description Fees Paid (\$)
1011 300	2011	150	Utility application filing fee \$300.00
1111 500	2111	250	Utility search fee 1,000/500 \$500.00
1311 200	2311	100	Utility examination fee
1012 200	2042	100	Design application filing for
1012 200 1112 100	2012 2112	100 50	Design application filing fee 430/215
1312 130	2312	65	Design examination fee
1013 200	2013	100	Plant filing fee
1113 300	2113	150	Plant search fee 660/330
1313 160	2313	80	Plant examination fee
1004 300	2004	150	Reissue filing fee
1114 500	2114	250	Reissue search fee1,400/700
1314 600	2314	300	Reissue examination fee
1005 200	2005	100	Provisional application filing fee
			SUBTOTAL (1) \$ <u>1,000.00</u>

Based on Form PTO/SB/17 (12-04) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 12/13/04

Apple v. Uniloc

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Page 194 of 251

2. EXCESS CLAIM FEES		
	Extra Claims	Fee from below Fees Paid (\$)
HP = highest number of total claims Independent Claims _4	3 or HP =	$ \begin{array}{r} X & \underline{\$50.00} & = & \underline{00.00} \\ X & \underline{\$200.00} & = & \underline{200.00} \\ \end{array} $
HP = highest number of independer Multiple Dependent Claims	it claims paid for, if greater than 3	=
1202         50         2202         25         Ea           1201         200         2201         100         Ea           1203         360         2203         180         Mi           1204         200         2204         100         Ref	e Description Ich claim over 20 Ich independent claim over 3 Iltiple dependent claims, if not paid Pissue: each claim over 20 and more the Pissue: each independent claim more the	
		SUBTOTAL (2) \$ <u>200.00</u>
3. APPLICATION SIZE FEE		
	eed 100 sheets of paper, the application s or fraction thereof. See 35 U.S.C. 41(a)(1	
Total Sheets Extra She	Number of each add'l ets 50 or fraction thereof	<u>Fee from</u> <u>below</u> <u>Fees paid (\$)</u>
<u>    48                                </u>	/ 50 =  (round up to whole num	ber) X <u>\$250.00</u> 00.00
-	ee Description: Application size fee f eyond initial 100 sheets (count spec & di	or each additional group of 50 sheets rawings except sequences & program listings):
1082 250 2082 125 E 1083 250 2083 125 F	Itility Design Ylant	
1084 250 2084 125 F	Reissue	SUBTOTAL (3) \$ <u>0.00</u>

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Non Er	alich End	alfiection	¢120 fee	(no small optitu diogount)	Fees Paid (S
	-			(no small entity discount)	
<u>Large I</u> Fee	Entity Fee	<u>Small E</u> Fee	ntity Fee		
Code	(\$)	Code	(\$)	Fee Description	
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1813	8,800	1813	8,800	Request for inter parties reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	120	2251	60	Extension for reply within first month	
1252	450	2252	225	Extension for reply within second month	
1253	1,020	2253	510	Extension for reply within third month	
1254	1,590	2254	795	Extension for reply within fourth month	
1255	2,160	2255	1,080	Extension for reply within fifth month	
1401	500	2401	250	Notice of Appeal	<u>a</u>
1402	500	2402	250	Filing a brief in support of an appeal	
1403	1,000	2403 1451	500 1,510	Request for oral hearing	
1451 1452	1,510 500	1451 2452	1,510	Petition to institute a public use proceeding Petition to revive – unavoidable	
1452	1,500	2452	750	Petition to revive - unintentional	
1501	1,400	2501	700	Utility issue fee (or reissue)	
1502	800	2502	400	Design issue fee	
1503	1100	2503	550	Plant issue fee	
1462	400	1462	400	Petitions to the Commissioner (CFR 1.17(f) Group I)	H
1463	200	1463	200	Petitions to the Commissioner (CFR 1.17(g) Group II)	
1464	130	1464	130	Petitions to the Commissioner (CFR 1.17(h) Group III)	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per	
				property (times number of properties)	
1809	790	2809	395	For filing a submission after final rejection	
				(see 37 CFR 1.129(a))	
1814	130	2814	65	Statutory Disclaimer	
1810	790	2810	395	For each additional invention to be examined	
4004	700	2004	205	(see 37 CFR 1.129(b))	
1801 1802	790 900	2801 1802	395 900	Request for Continued Examination (RCE)	
1002	500	1002	300	Request for expedited examination of a design application	
1504	300	1504	300	Publication fee for early, voluntary, or normal pub.	
1505	300	1505	300	Publication fee for republication	
1803	130	1803	130	Request for voluntary publication or republication	
1808	130	1808	130	Processing fee under 37 CFR 1.17(i) (except provisionals)	
1454	1,370	1454	1,370	Acceptance of unintentionally delayed claim for priority	
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- 3 -Based on Form PTO/SB/17 (12-04) as modified by BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP on 12/13/04

Patent

# **UNITED STATES UTILITY PATENT APPLICATION**

FOR

# HUMAN ACTIVITY MONITORING DEVICE

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12/22/06 (Date signed)

# HUMAN ACTIVITY MONITORING DEVICE

### FIELD OF THE INVENTION

[0001] This invention relates to a method of monitoring human activity, and more particularly to counting periodic human motions such as steps.

### BACKGROUND

[0002] The development of Micro-Electro-Mechanical Systems (MEMS) technology has enabled manufacturers to produce inertial sensors (e.g., accelerometers) of sufficient size, cost, and power consumption to fit into portable electronic devices. Such inertial sensors can be found in a limited number of commercial electronic devices such as cellular phones, portable music players, pedometers, game controllers, and portable computers.

[0003] Step counting devices are used to monitor an individual's daily activity by keeping track of the number of steps that he or she takes. Generally, step counting devices that utilize an inertial sensor to measure motion to detect steps require the user to first position the device in a limited set of orientations. In some devices, the required orientations are dictated to the user by the device. In other devices, the beginning orientation is not critical, so long as this orientation can be maintained.

[0004] Step counting devices are often confused by motion noise experienced by the device throughout a user's daily routine. This noise causes false steps to be measured and actual steps to be missed in conventional step counting devices. Conventional step counting devices also fail to accurately measure steps for individuals

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who walk at a slow pace. Such step counting devices can fail to operate for seniors and others walking at a slow pace.

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# BRIEF DESCRIPTION OF THE DRAWINGS

[0005] The present invention is illustrated by way of example, and not by way of limitation, and can be more fully understood with reference to the following detailed description when considered in connection with the following figures:

[0006] **Figure 1** is a block diagram illustrating one embodiment of an electronic device;

[0007] **Figure 2** illustrates an exemplary cadence of motion graph that measures time versus acceleration, in accordance with one embodiment of the present invention;

[0008] **Figure 3** shows a state diagram for the behavior of a system of monitoring human activity using an inertial sensor, in accordance with one embodiment of the present invention;

[0009] **Figure 4** illustrates a flow diagram for a method of operating an electronic device in sleep mode, in accordance with one embodiment of the present invention;

[0010] **Figure 5** illustrates a flow diagram for a method of operating an electronic device in entry mode, in accordance with one embodiment of the present invention;

[0011] **Figure 6** illustrates a flow diagram for a method of operating an electronic device in stepping mode, in accordance with one embodiment of the present invention;

[0012] **Figure 7** illustrates a flow diagram for a method of operating an electronic device in exit mode, in accordance with one embodiment of the present invention;

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[0013] **Figure 8** illustrates a flow diagram for a method of recognizing a step in accordance with one embodiment of the present invention, in accordance with one embodiment of the present invention; and

[0014] **Figure 9** illustrates a flow diagram for a method of orienting an inertial sensor, in accordance with one embodiment of the present invention.

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### DETAILED DESCRIPTION

[0015] Embodiments of the present invention are designed to monitor human activity using an inertial sensor. In one embodiment, a dominant axis is assigned after determining an orientation of an inertial sensor. The orientation of the inertial sensor is continuously determined, and the dominant axis is updated as the orientation of the inertial sensor changes. In one embodiment, periodic human motions are counted by monitoring accelerations relative to the dominant axis.

[0016] **Figure 1** is a block diagram illustrating an electronic device 100, in accordance with one embodiment of the present invention. The electronic device 100 in one embodiment comprises an acceleration measuring logic 105, a filter 120, a dominant axis logic 127, a step counting logic 130, a timer 170, and a final step count 175. In one embodiment, the electronic device 100 is a portable electronic device that includes one or more inertial sensors. The inertial sensors may measure accelerations along a single axis or multiple axes. The inertial sensors may measure linear as well as rotational (angular) accelerations. The electronic device 100 may be used to count steps or other periodic human motions. Steps may be accurately counted regardless of the placement and/or orientation of the device on a user. Steps may be accurately counted whether the electronic device 100 maintains a fixed orientation or changes orientation during operation. The electronic device 100 may be carried in a backpack, pocket, purse, hand, or elsewhere, and accurate steps may still be counted.

[0017] The acceleration measuring logic 105 measures acceleration data at a sampling rate. The sampling rate may be fixed or variable. In one embodiment, the acceleration measuring logic 105 receives a timing signal from the timer 170 in order to

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take measurements at the sampling rate. The acceleration measuring logic 105 may be an inertial sensor.

[0018] In one embodiment, measurement data is processed by the filter 120 to remove noise. The filter 120 may be implemented in hardware, software, or both hardware and software. The filter 120 may include a high pass filter, a low pass filter, a bandpass filter, a bandstop filter and/or additional filters. The filter 120 may include a digital filter and/or an analog filter. In one embodiment, a hardware digital filter includes at least one of a finite impulse response (FIR) filter and an infinite impulse response (IIR) filter. In one embodiment, an N-tap hardware digital FIR filter is used. The use of a hardware FIR filter may reduce power consumption by reducing and/or eliminating software digital filtering.

[0019] In one embodiment, the filter 120 includes multiple filters, and a determination of which filters to apply to the measurement data is made based upon an operating mode of the electronic device 100. In one embodiment, the selection of which filters to use is determined by the type of user activity detected. For example, a low pass filter may be used to remove high frequency noise that would interfere with step counting when a user is walking. In contrast, a high pass filter may be used when quick motions are to be monitored.

[0020] Filtered measurement data may be passed on to the dominant axis logic 127 and the step counting logic 130. In one embodiment, the dominant axis logic 127 includes a cadence logic 132, a rolling average logic 135, and a dominant axis setting logic 140. In an alternative embodiment, more or fewer logics may be used to determine a dominant axis. One embodiment of implementing dominant axis assignment may be found in co-pending application U.S. Serial No. XXX, which is

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incorporated herein by reference. Alternative means of identifying a dominant axis may be used in other embodiments.

[0021] In one embodiment, the dominant axis logic 127 is used to determine an orientation of the electronic device 100 and/or an inertial sensor within the electronic device 100. In alternative embodiments, other logics may be used to determine an orientation of the electronic device 100.

[0022] Referring to **Figure 1**, the cadence logic 132 may determine one or more sample periods to be used by the rolling average logic 135, and may determine a cadence window 150 to be used by the step counting logic 130. In one embodiment, the cadence logic 135 detects a period and/or cadence of a motion cycle. The period and/or cadence of the motion cycle may be based upon user activity (e.g. rollerblading, biking, running, walking, etc).

[0023] Many types of motions that are useful to keep track of have a periodic set of movements. Specific periodic human motions may be characteristic of different types of user activity. For example, to walk, an individual must lift a first leg, move it forward, plant it, then repeat the same series of motions with a second leg. In contrast, a person rollerblading performs a repeated sequence of pushing, coasting and liftoff for each leg. For a particular individual, the series of walking motions will usually occur in about the same amount of time, and the series of rollerblading motions will usually occur in the same amount of time. The repeated set of motions can be considered a unit, and defines the motion cycle. The amount of time that it takes to complete one motion cycle defines the motion cycle's period, and the number of motion cycles that occur in a given unit of time define the motion cycle's cadence. For simplicity, the term "step" is used in this application to describe the user activity being evaluated. However,

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in the context of this application, the term "step" should be taken to mean any user activity having a periodic set of repeated movements.

[0024] **Figure 2** illustrates an exemplary motion cycle graph 201 that measures time versus acceleration, in accordance with one embodiment of the present invention. The exemplary motion-cycle graph 201 shows acceleration data taken with a single tri-axis inertial senor. The acceleration at a given period of time is represented for a first axis 203, a second axis 205, and a third axis 207. In one embodiment, the cadence logic 135 of **Figure 1** analyzes the acceleration along the first axis 203, second axis 205 and third axis 207 to detect a motion cycle. Once a motion cycle is detected, a period of the motion cycle is determined, and a cadence of the motion cycle is determined. **Figure 2** shows an exemplary period of a motion cycle 210 for the third axis 207, the period being approximately 0.6 seconds. The same period can also be seen to a lesser degree in the second axis 205 and the first axis 203. The corresponding cadence to the motion cycle is approximately one hundred motion cycles per minute.

[0025] In one embodiment, once a stepping period (or other motion cycle period) is determined, that period may be used to set the cadence window (the allowable time window for steps to occur). In one embodiment, the period is updated after each step. The current stepping period may be a rolling average of the stepping periods over previous steps, as discussed in more detail with reference to the rolling average logic 135 of **Figure 1**.

[0026] A cadence window may be used to facilitate accurate measurement of a step, or other periodic human motion. A cadence window is a window of time since a last step was counted that is looked at to detect a new step. A cadence window may be

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set based on the period and/or cadence of the actual motion cycle (e.g., a stepping period), on set limits, and/or on other determiners.

[0027] Referring to **Figure 2**, an exemplary first cadence window 240 and second cadence window 255 are shown. The first cadence window 240 may be defined by a first cadence window minimum 230 and a first cadence window maximum 235. The second cadence window 255 may be defined by a second cadence window minimum 245 and a second cadence window maximum 250. In one embodiment, the cadence window minimums 230 and 245 and cadence window maximums 235 and 250 are determined by measuring lengths of time since the most recent step was counted. In one embodiment, this length of time is measured via the timer 170 of **Figure 1**. In other embodiments, other variables may be used to set the cadence window. For example, cadence windows may be determined by measuring cumulative amounts of acceleration that have been measured since the previous step was counted.

[0028] Returning to **Figure 2**, cadence windows may be used to count steps until an expected step is not encountered. In one embodiment, new cadence windows are determined periodically. In one embodiment, the cadence window is a dynamic cadence window that continuously updates as a user's cadence changes. For example, using a dynamic cadence window, a new cadence window length may be set after each step. (. The cadence window minimums may be determined by subtracting a value from the stepping period, and the cadence window maximums may be determined by adding a value to the stepping period. In one embodiment, the cadence window maximums are preset, and the cadence window minimums are updated after each step is counted. In one embodiment, the cadence window minimums are preset, and the cadence window maximums are updated after each step is counted. In one

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embodiment, both the cadence window minimums and cadence window maximums are updated when a step is counted. In one embodiment, the current cadence window minimum is determined by subtracting 200 ms from the current stepping cadence period. In one embodiment, the cadence window minimum has a minimum value of 240 ms.

[0029] In the illustrated embodiment of **Figure 2**, a first step 217 is counted at 0.65 seconds, and a second step 232 is counted at approximately 1.15 seconds. The first cadence window 240 opens at approximately 0.4 seconds from the first step 217, and closes at approximately 0.8 seconds from the first step 217. As shown, the second step 232 falls within the first dynamic cadence window 240. A third step 233 falls within the second dynamic cadence window 255, which may have a second cadence window minimum 245 and second cadence window maximum 250 that are different from the first cadence window minimum 230 and first cadence window maximum 235. The illustrated second cadence window maximum 250 is about 0.75 seconds from the second step 232, and the second cadence window maximum 250 is about 0.75 seconds from the second step 232. Other cadence window minimums and maximums are also possible. When motion criteria (e.g., threshold conditions) are met within a cadence window, a step is detected, whereas when motion criteria are met outside of the cadence windows no step is detected.

[0030] If no previous steps have been detected, there is no cadence minimum, and a step may be detected at any time that motion criteria are met. If fewer than the required number of steps to determine a dynamic cadence window have been detected, then the cadence window may have a default minimum and maximum value. In one embodiment, the cadence window has a default minimum of around 325 ms and

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a default maximum of around 1000 ms. Once enough steps have been detected to determine a dynamic stepping cadence or period, the cadence window may be set to the determined stepping period plus or minus an error factor. In one embodiment, a count of between about two to about ten periodic human motions is sufficient to set a dynamic cadence window.

[0031] The cadence of any periodic human motion will generally not change more than a certain amount in a given time period. In one embodiment, the cadence window may be sufficiently wide to continue counting periodic human motions even when a stepping cadence changes. In one embodiment, the cadence window is narrower, and steps may not be counted when a stepping cadence changes. So as not to miss steps, once a new stepping cadence is detected, previous measurements may be examined to determine whether they register as steps under the new stepping cadence and a new cadence window. Therefore, steps may be counted even if they did not occur in the original cadence. Human cadences change within a known window of rates, and so steps can be differentiated from other noise. This may ameliorate and/or eliminate missed step counts due to changes in cadence.

[0032] In one embodiment, when steps repeatedly occur at a time different from the current stepping period, a new stepping period and a new cadence window are set. For example, when the stepping period is 0.7 seconds, and a step occurs about every 0.6 seconds enough times in a row, then the stepping period is changed to 0.6 seconds and a new cadence window is set based on the changed stepping period.

[0033] Returning to **Figure 1**, once the stepping period is detected, the cadence logic 132 may set one or more sample periods for the rolling average logic 135

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to use based upon the stepping period. In one embodiment, the sample period(s) are set such that at least one sample period is approximately the length of, or longer than, the stepping period. In one embodiment, a sample period is set such that it is a multiple of the stepping period.

[0034] The rolling average logic 135 creates one or more rolling averages of accelerations as measured by the inertial sensor(s) over the sample period(s) set by the cadence logic 132. The rolling averages of accelerations may be used for determining an orientation of the electronic device, for determining thresholds to compare acceleration measurements against, and/or for other purposes. In one embodiment, the rolling average logic 135 creates a rolling average of accelerations for determining an orientation of the electronic device 100, the rolling average having a period that is at least the stepping period. In one embodiment, the rolling average logic creates a rolling average logic creates a rolling average logic creates a rolling average of acceleration measurements against, the rolling average having a sample period that is at least twice the stepping period.

[0035] The rolling average logic 135 may create one or more rolling averages of data other than accelerations. In one embodiment, the rolling average logic 135 creates a rolling average of stepping periods, where the rolling average is the rolling average time between steps. In one embodiment, the rolling average of stepping periods is calculated over the past four counted steps. The rolling average of the stepping periods may be used by the cadence logic 132 to determine a cadence window and a current stepping cadence.

[0036] In one embodiment, rolling averages may be maintained in registries that keep track of rolling average values and the number of samples that were used to

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calculate current rolling average values. When a new measurement is taken, it can be incorporated into the previous rolling average value, and the registry can than be updated with a new rolling average value. Alternatively, the rolling averages may be maintained by buffering the measurements used to calculate the rolling averages. As the buffers fill, oldest measurement data can be discarded and replaced by new measurement data. The measurements in the buffer can be averaged after each measurement to determine a new rolling average.

[0037] In one embodiment, the dominant axis setting logic 140 determines an orientation of the electronic device 100 and/or the inertial sensor(s) within the electronic device 100. The orientation may be determined based upon the rolling averages of accelerations created by the rolling average logic 135. In one embodiment, once the orientation is determined, a dominant axis is assigned based upon the orientation. Determining an orientation of the electronic device 100 may include identifying a gravitational influence. The axis with the largest absolute rolling average may be the axis most influenced by gravity, which may change over time (e.g. as the electronic device is rotated). Therefore, a new dominant axis may be assigned when the orientation of the electronic device 100 and/or the inertial sensor(s) attached to or embedded in the electronic device 100 changes.

[0038] In one embodiment, the actual axis with the largest absolute rolling average over the sample period is assigned as the dominant axis. In alternative embodiments, the dominant axis does not correspond to one of the actual axes of the inertial sensor(s) in a current orientation, but rather to an axis that is defined as approximately aligned to gravity. In one embodiment, the dominant axis corresponds to a virtual axis that is a component of a virtual coordinate system. In one embodiment,

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the dominant axis setting logic 140 assigns the dominant axis by performing a true gravity assessment, such as by doing trigonometric calculations on the actual axes based on the gravitational influence. In one embodiment, the dominant axis setting logic 140 assigns the dominant axis by comparing the gravitational influence to a data structure such as a lookup table, associative array, hash table, adjacency matrix, etc.

[0039] Returning to **Figure 1**, the step counting logic 130 may include a measurement selection logic 145, a cadence window 150, a measurement comparator 155, a threshold comparator 160, a step count buffer 165, and a mode logic 190. The measurement selection logic 145 may determine which measurements from the measurement buffer 125 to use to determine if a step has occurred. In one embodiment, the measurement selection logic 145 may monitor accelerations relative to the dominant axis, and select only those measurements with specific relations to the dominant axis for measurement. For example, only accelerations that are approximately parallel to the dominant axis may be selected, or alternatively, only accelerations that are approximately perpendicular to the dominant axis may be selected. In one embodiment, the measurement selection logic 145 selects only measurements of acceleration data along the dominant axis. In alternative embodiments, measurements of acceleration data along other axes may also be used. In one embodiment, measurements of acceleration along only the other axes are used.

[0040] Selected measurements may be forwarded to the measurement comparator 155 and the threshold comparator 160 to determine whether a step has occurred. The measurement comparator 155 may compare a current measurement to previous measurements. Based on this comparison, a current measurement may

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qualify as a step if it has met certain comparison criteria, as discussed in more detail with reference to **Figure 8**.

[0041] In one embodiment, a motion cycle graph is maintained, and the current measurement is compared to the motion cycle graph. If the motion cycle graph indicates that the current measurement in relation to preceding measurements fits the profile of a step, then a step may be counted. Otherwise a step may not be counted.

[0042] Returning to **Figure 1**, the threshold comparator 160 disqualifies measurements from being counted as steps for failure to meet certain thresholds. In one embodiment, measurements must be larger than a lower threshold to qualify as a step. In one embodiment, the threshold comparator 160 compares measurements to an upper threshold. In one embodiment, only a measurement having a smaller absolute value of acceleration than the upper threshold and a higher absolute value than the lower threshold is counted as a step. The upper threshold and the lower threshold are discussed in more detail below with reference to **Figure 8**.

[0043] In one embodiment, the threshold comparator 160 and the measurement comparator 155 are combined into a single comparator. In one embodiment, other comparators may be used, such as a curve fitting comparator or a slope comparator.

[0044] The step count buffer 165 keeps track of probable steps. The exact behavior of the step count buffer 165 depends on which operating mode the electronic device 100 is in. In one embodiment, the operating mode that the electronic device is in is determined by the mode logic 190. In the illustrated embodiment, the mode logic 190 is a component of the step counting logic 130. In an alternative embodiment, the mode logic 190 is a separate logic from the step counting logic 130. In one

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embodiment, operating modes include a non-active mode, in which periodic human motions are buffered, and an active mode, in which periodic human motions are counted. In one embodiment, operating modes include a sleep mode, a step counting mode, an entry mode, and an exit mode. Operating modes are discussed in greater detail below in reference to **Figure 3**.

[0045] Returning to **Figure 1**, when the threshold comparator 160 and measurement comparator 155 both indicate that a measurement is a step, then the step count buffer 165 is incremented by one. Depending on the mode, when the step count buffer 165 reaches a certain amount, the step count buffer 165 is emptied and the final count 175 is incremented by the amount of steps that were in the step count buffer 165. The number of steps that must be counted by the step count buffer 165 before they register as actual steps may vary from one to ten or more, depending on the current operating mode. The final step count 175 keeps track of the total number of steps that have occurred. In one embodiment, this data is transmitted to a server or remote database.

[0046] **Figure 3** shows a state diagram for the behavior 300 of a system for monitoring human activity, in accordance with one embodiment of the present invention. The system may have multiple operating modes (states) that are navigated between by processing logic that may comprise hardware (e.g., circuitry, dedicated logic, programmable logic, microcode, etc.), software (such as instructions run on a processing device), or a combination thereof. In one embodiment, behavior 300 is the behavior of the electronic device 100 of **Figure 1**.

[0047] The behavior 300 may include four operating modes for monitoring human activity: a sleep mode, an entry mode, a stepping mode, and an exit mode. In

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alternative embodiments, a different number of modes may be used. In one embodiment, only two modes are used: active mode and non-active mode. The active mode is entered once continuous steps within the cadence window have been identified, while the non-active mode is used for all other states. In alternative embodiments, multiple inactive modes and/or active modes are used. To navigate between modes, certain conditions must be met. The conditions may include exit conditions for terminating an active mode and entry conditions for initiating inactive modes. Each mode may have different exit and entry conditions.

[0048] Use of different conditions for different operating modes increases the reliability of the device that is monitoring the human activity. For example, once an object (e.g., a person) is moving, they are more likely to remain moving than to stop. Likewise, if a person is not moving, they are more likely not to move than to begin moving. These principles can be applied by requiring more stringent conditions to be met for a device to initiate a walking (stepping) mode than to continue the walking mode. The different modes may each have rules that reflect what is more likely to happen for subsequent measurements. This may reduce or eliminate the number of uncounted steps and/or false step counts.

[0049] Referring to **Figure 3**, modes 300 in one embodiment include a sleep mode 305, an entry mode 315, a stepping mode 325, and an exit mode 335. In one embodiment, the power level of the system or device is linked to these modes.

[0050] The first mode initiated is the sleep mode 305. When no activity (acceleration) is detected, the system remains in sleep mode 305. When acceleration is detected, an entry mode 315 is initiated.

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[0051] Once in entry mode 315, acceleration may be monitored to detect steps. When N steps are detected in appropriate cadence windows, a stepping mode 325 is initiated. If N steps are not detected within a period of time, sleep mode is reinitiated. In one embodiment, sleep mode is only initiated if no motion is detected.

[0052] Once in stepping mode 325, acceleration data is monitored to count steps according to a predefined set of rules or motion criteria. According to one of these criteria, steps are expected to occur within a set interval (e.g., within a cadence window). When a step is counted within the set interval, then the stepping mode 325 is continued. When a step is not detected within the set interval, an expected step has not occurred, and an exit mode 335 is initiated.

[0053] In exit mode 335, processing logic determines whether a predetermined number of steps (X) are detected at a particular cadence. The predetermined number of steps X may be the same as, or different from, the number of steps N. When X steps are detected in a cadence, stepping mode 325 is reinitiated. When X steps are not detected within a period of time, entry mode 315 is reinitiated.

[0054] **Figure 4** illustrates a flow diagram for a method 400 of operating an electronic device in sleep mode, in accordance with one embodiment of the present invention. In one embodiment, method 400 corresponds to the sleep mode 305 of **Figure 3**. In one embodiment, the method 400 may begin when no relevant acceleration has been detected for a predetermined time interval, or when no steps have been detected for a predetermined time interval. In one embodiment, when no acceleration above a threshold value is detected for a set period of time, the sleep function is initiated. In another embodiment, when a motion signature indicative of an activity that does not need to be monitored is detected, the sleep function is initiated.

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For example, when the motion signature of driving is detected, the sleep function may be initiated. The time period that elapses before the sleep mode is initiated may be a fixed value, or it may be adjusted automatically by processing logic or based on user input (e.g. in response to a user selection of desired battery longevity verses desired performance, or based on the last measured cadence window).

[0055] Referring to **Figure 4**, method 400 begins with setting a sleep mode sampling rate (block 405). In one embodiment, a low sampling rate is set. This reduces power consumption and prolongs battery life. In one embodiment, the sleep mode sampling rate is a fixed value. In alternative embodiments, the sleep mode sampling rate can be modified automatically by processing logic based on certain criteria such as time of day, user behavior patterns, etc., or based on user input.

[0056] In one embodiment, a sampling function is periodically executed in sleep mode, wherein the sampling function samples acceleration data at a set sampling rate for a set time period. For example, the sampling function may be executed every ten seconds for a duration of one second, and a sampling rate of fifty measurements per second may be set for that one second of operation. In one embodiment, the sampling function repeats at a relatively slow rate (e.g., once every 10 seconds), and the sampling rate within the sampling function is relatively high (e.g., 50 Hz). The sampling function may be used to detect unwanted motion signatures, or to maintain a device in low power sleep mode, for example, while a user is driving in a car.

[0057] In one embodiment, the sleep mode sampling rate is set to zero. The sleep mode may be set to zero, for example, when an inertial sensor has 'inertial wakeup' functionality. Inertial wakeup functionality enables processing logic to switch from sleep mode to entry mode when an acceleration exceeding a set threshold is

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detected. The inertial wakeup may be used to simultaneously exit sleep mode and power-up additional functionality.

[0058] At block 410, measurements of acceleration data are taken. At block 415, processing logic determines whether or not relevant acceleration is detected. Relevant acceleration includes acceleration that meets certain relevancy criteria. In one embodiment, the relevancy criteria include a lower threshold and an upper threshold. In alternative embodiments, other relevancy criteria may also be used, such as a requirement that acceleration be continuously measured for a preset time period.

[0059] When no relevant acceleration is detected, or when the 'inertial wakeup' pin has not triggered (for inertial sensors having 'inertial wakeup functionality'), sleep mode continues, and further measurements of acceleration data are taken at the set sleep mode sampling rate (block 410). When acceleration is detected, sleep mode is terminated and entry mode is initiated (block 420). In one embodiment, the acceleration that is detected and its rate of change must meet certain criteria to terminate sleep mode.

[0060] **Figure 5** illustrates a flow diagram for a method 500 of operating an electronic device in entry mode, in accordance with one embodiment of the present invention. In one embodiment, method 500 corresponds to the entry mode 315 of **Figure 3**. The entry mode may be initiated when a user first begins an activity in which steps may be detected. In one embodiment, the method 500 begins when any relevant acceleration is detected. In one embodiment, entry mode is initiated when a measurement of acceleration that meets certain criteria has been detected. In one embodiment, method 500 is initiated when a sleep mode is terminated.

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[0061] Referring to **Figure 5**, method 500 begins by setting the sampling rate to a stepping sampling rate (block 504). The stepping sampling rate is set to facilitate accurate measurements of steps, and may be a fixed or a dynamically variable rate. A variable sampling rate may automatically adjust depending on a period of a detected stepping cadence, may be user adjusted, may adjust based on applications being run by processing logic, or by other means. The stepping sampling rate may be set to anywhere between about 10 and about 200 Hz. In one embodiment, the stepping sampling rate is set to about 15 to 40 Hz.

[0062] At block 510, a first step is recognized. Since no previous steps have been measured, and there is no cadence window, the first step may be recognized at any time. Once a first step is recognized, a default cadence window is set (block 514). The default cadence window may have a minimum and maximum such that steps will be counted for most or all possible stepping cadences, whether a user is walking slowly or sprinting. In one embodiment, the default cadence window has a minimum of around 325 ms and a maximum of around 1000 ms.

[0063] In one embodiment, an initial default value is set wide enough to accommodate all users, and is then dynamically adjusted to match the specific user in question. Processing logic may 'learn' (adapt to) a particular user, and may become more accurate as steps are counted. Processing logic that has the ability to learn or adapt to different users may create an individualized profile for each user. Multiple profiles may also be created for each user, the different profiles reflecting different user activity. For example, a first profile might be created for a user's running and a second profile may be created for a user's walking. Processing logic may switch between different profiles automatically, or manually based on user input. In one embodiment,

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processing logic compares a current cadence and/or motion cycle pattern to stored profiles. When a current cadence or motion cycle pattern matches that of a stored profile, that profile is activated.

[0064] At block 520, a buffered step count is set to one. At block 524, processing logic determines whether an additional step is recognized. An additional step may be recognized if a particular measurement of acceleration meets all the necessary criteria. One embodiment of these criteria is discussed below with reference to **Figure 8**.

[0065] Returning to **Figure 5**, if an additional step is recognized, method 500 continues to block 560. If no additional steps are recognized, then processing logic determines whether the time is still within the cadence window (block 530). If there is still time within the cadence window, the process returns to block 524. If the cadence window has closed, then the buffered step count is reset to zero (block 534). The process then continues to block 540.

[0066] At block 540, processing logic determines whether any relevant acceleration is detected. If no relevant acceleration is detected, then sleep mode is initiated (block 544). If some relevant acceleration is detected, then processing logic returns to block 510 to await recognition of another first step. If at block 540 an additional step was recognized, the process continues to block 560.

[0067] At block 560, an additional step is added to the buffered step count. Processing logic then checks whether there are M counts in the buffered step count (block 564). In one embodiment, M is an integer value between about 4 and 10. If there are not at least M steps in the buffered step count, then the process returns to block 524.

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[0068] If the buffered step count is equal to or greater than M, then the processing logic checks whether the cadence window is set to the default (block 570). If the cadence window is still set to the default, then a new cadence window is set (block 574) based on a stepping cadence of the M steps measured. The process then returns to block 524. If the cadence window is not set to the default, then processing logic continues to block 580. In an alternative embodiment, once there are M steps in the buffered step count, the cadence window may be adjusted for each additional step that is recognized.

[0069] At block 580, processing logic checks whether there are N steps in the buffered step count (block 580), where N may be an integer value greater than M. When there are not yet N steps in the buffered step count, the process returns to block 524 to continue in entry mode. When the number of steps in the buffered step count reaches N, the buffered steps are added to an actual or final step count, and a stepping mode is entered into (block 584).

[0070] **Figure 6** illustrates a flow diagram for a method 600 of operating an electronic device in stepping mode, in accordance with one embodiment of the present invention. In one embodiment, method 600 corresponds to the stepping mode 325 of **Figure 3**. The stepping mode may be initiated when a user has been walking long enough for a buffered step count to fill. In one embodiment, method 600 is initiated when an entry mode is terminated, and/or when an exit mode is terminated.

[0071] Referring to **Figure 6**, method 600 begins by setting a cadence window (block 610). The cadence window may be set based on previous measurement data. In one embodiment, the cadence window is set based on a rolling average of stepping periods. In one embodiment, the cadence window may be identical to the

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cadence window used during entry mode. Once the cadence window is set, measurement data is checked to determine whether an additional step is recognized (block 615). If an additional step is recognized, then it is added to the final or actual step count (block 620). If no additional step is recognized, then processing logic determines whether the current measurement was taken within the cadence window (block 625). If the cadence window has not elapsed, the process returns to block 615. If the cadence window has not elapsed, the process returns to block 615. If the cadence window has elapsed, then an expected step was not counted, and an exit mode is initiated (block 630).

[0072] **Figure 7** illustrates a flow diagram for a method 700 of operating an electronic device in exit mode, in accordance with one embodiment of the present invention. In one embodiment, method 700 corresponds to the exit mode 335 of **Figure 3**. The exit mode may be entered into when an expected step is not identified in stepping mode.

[0073] In one embodiment, the requirement(s) for changing from exit mode to stepping mode are less strict than the requirement(s) for switching from entry mode to stepping mode. Processing logic may assume that when a user has recently taken a step, the user is most likely to take another step. Processing logic may also assume that if a user has not just taken a step, it is most likely that they will not take one. These assumptions may be implemented by imposing more stringent requirements to switch from entry mode to stepping mode than to change from exit mode to stepping mode.

[0074] An expected step may not be identified, for example, when a user stops walking, when extraneous movements such as gestures are made that interfere with the step count, or when a device orientation is changed as a step occurs. In one

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embodiment, the exit mode assumes that a step has been missed, so that if the exit mode determines that a user is still walking, the originally uncounted step is not missed.

[0075] The process begins by initiating a step timer (block 705). The step timer measures the amount of time that has passed since a step has been identified. In one embodiment, the step timer is a countdown timer that terminates exit mode when the timer reaches zero. In one embodiment, the step timer starts counting when a cadence window minimum is reached, and stops counting when a cadence window maximum is reached. In an alternative embodiment, the step timer starts counting as soon as the exit mode is initiated, and stops counting when a cadence window maximum is reached. In one embodiment, the step timer starts counting as soon as the exit mode is initiated, and stops counting when a cadence window maximum is reached. In one embodiment, the step timer starts counting at 240 ms from the time that the expected step should have occurred.

[0076] At block 710, a step is added to a buffered step count. At block 715, processing logic determines whether the buffered step count is equal to X, where X of the number of identified steps in exit mode. In one embodiment, X is between 3 and 8. If the buffered step count is equal to X, then the buffered steps are added to the actual step count and stepping mode is reinitiated (block 720). If the buffered step count is not equal to X, then processing logic proceeds to block 725.

[0077] At block 725, processing logic determines whether the step timer has timed out (allotted time has elapsed). In one embodiment, the step timer times out when no steps are counted within a cadence window. In one embodiment, the step timer times out when no steps are counted in two or more cadence windows. If the allotted time has elapsed, then the buffered step count is cleared, and entry mode is initiated (block 730). If the allotted time has not elapsed, then processing logic determines whether an additional step is recognized (block 735). If a step is

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recognized, then the step timer is reset (block 705), the buffered step count is incremented by one (block 710), and on the process continues to block 715. If a step is not recognized, then processing logic returns to block 725 to determine whether the step timer has elapsed. In an alternative embodiment, the step timer is not reset when an additional step is recognized, and the buffered step count must reach X in the time initially allotted by the step timer. In that instance, the step timer is set at greater than X times the cadence window.

[0078] Figure 8 illustrates a flow diagram for a method 800 of recognizing a step, in accordance with one embodiment of the present invention. In one embodiment, method 800 may be executed by blocks 510 and 524 of Figure 5, block 615 of Figure 6 and block 735 of Figure 7. In one embodiment, method 800 is performed by electronic device 100 of Figure 1.

[0079] Referring to **Figure 8**, method 800 begins with measurements of acceleration data being taken (block 805). Measurements are taken according to a sampling rate, which may vary from about one measurement per second to many measurements a second, depending on the operating mode being used.

[0080] At processing block 810, in one embodiment measurements are filtered. Measurements can be filtered to remove high frequency data and/or low frequency data. In one embodiment, what data to filter depends on the type of user activity detected. At processing block 812, in one embodiment the inertial sensor is oriented by assigning a dominant axis. Assigning a dominant axis may include calculating rolling averages of acceleration and assigning the dominant axis based on the rolling averages of acceleration.

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[0081] At block 815, processing logic determines whether a measurement is within a cadence window. If the measurement is not within a cadence window, then no step may be recognized or counted for that measurement (block 840). If the measurement is within the cadence window, the process continues to block 820.

[0082] At block 820, processing logic determines whether acceleration along the dominant axis is greater than a lower threshold. If the measurement is not greater than the lower threshold, no step may be recognized or counted for that measurement (block 840). If the measurement is greater than the lower threshold, the processing logic continues to block 825.

[0083] In one embodiment, the measurement may qualify as a step if it is the first measurement that crosses the lower threshold. In an alternative embodiment, the measurement with the greatest acceleration within a cadence window (e.g. a peak) may be counted as a step.

[0084] The lower threshold may be based on a rolling average of accelerations as determined by the rolling average logic 135 of **Figure 1**. In one embodiment, the rolling average of accelerations that is used to set the lower threshold has a sample period that is about twice the stepping period. In alternative embodiments, other sample periods are used for the rolling average.

[0085] In one embodiment, the lower threshold is set such that an absolute value of a measurement must exceed an absolute value of the rolling average to be counted as a step. Multiple lower thresholds may be set, and a current measurement may be compared to one or more of the lower thresholds depending on operating conditions. For example, a negative lower threshold may be used if acceleration is detected in a negative direction (e.g., when device is upside down), and a positive lower

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threshold may be used if acceleration is detected in a positive direction (e.g., device is right-side up). In one embodiment, absolute values may be used.

[0086] In one embodiment, the measurement must exceed the rolling average by a set margin. The margin may be set automatically by processing logic, or it may vary based on the orientation of the electronic device or inertial sensor(s), user input, and/or other criteria.

[0087] In one embodiment, the lower threshold is adjusted based on an orientation of the electronic device and/or an orientation of the inertial sensor(s) within the electronic device. If an axis is closely aligned with gravity, a first threshold may be used. If no axes are closely aligned to gravity, other thresholds may be used. In one embodiment, a variable threshold is used, the variable threshold having a larger value when an axis is closely aligned to gravity, and progressively lower values as an axis most closely aligned with gravity is moved out of line with gravity. The variable threshold can be implemented using a data structure (e.g., a lookup table, hash table, adjacency matrix, etc.), comparison to a virtual axis, or by performing trigonometric calculations.

[0088] At block 825, processing logic determines whether acceleration along the dominant axis is greater than previous measurements. In one embodiment, acceleration along the dominant axis for a present measurement is compared to the previous 1 to 4 measurements.

[0089] In one embodiment, the absolute value of the present measurement is compared to the absolute value of the previous measurement or measurements. By comparing the absolute value of acceleration along the dominant axis to previous absolute value(s) of acceleration, processing logic may determine whether the

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acceleration of a user is moving away from the influence of gravity (e.g. whether a person is lifting a foot from the ground rather than planting it on the ground). In one embodiment, a measurement qualifies as a step when it reflects that the acceleration of a user is moving away from gravity. Alternatively, a current measurement may qualify as a step if it has an absolute value that is less than absolute values of the previous measurements, indicating that the acceleration of a user is moving towards gravity.

[0090] If the absolute value of the current measurement is not greater than the absolute values of the measurements compared to, then no step may be recognized or counted for that measurement (block 840). If the absolute value of the measurement is greater than the absolute values of previous measurements, then the process continues to block 830.

[0091] At block 830, processing logic determines whether acceleration for a particular measurement is lower than an upper threshold. In one embodiment, only acceleration along the dominant axis is compared to the upper threshold. In one embodiment, accelerations along all axes are compared to the upper threshold. If the current measurement is not lower than the upper threshold, then no step may be recognized or counted for that measurement (block 840). If the measurement is lower than the upper threshold, then get threshold, then a step may be counted (block 835). The upper threshold may be set to prevent sudden accelerations such as taps from being counted as steps.

[0092] Blocks 815, 820, 825 and 830 show four criteria that may be used to accurately determine whether user has walked or run one step. These criteria may be dynamic motion criteria that are updated continuously as current conditions change (e.g., as an inertial sensor changes orientation, as a user changes cadence, etc.).

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Alternatively, these criteria may be static criteria that are preset, or criteria that may be changed through user input.

[0093] As noted above, though embodiments of the present invention are described in reference to steps, the present invention equally applies to other periodic human motions. Other criteria may also be used in addition to, or in place of, those listed above. These criteria may reduce or eliminate the number of false steps counted and/or the number of missed steps. Examples of other criteria include specific rates of change in acceleration between measurements, specific shapes and/or sharpness of acceleration peaks for motion cycles, particular amplitudes of periodic human motions, etc. These and other criteria may be applied to embodiments of the present invention.

[0094] **Figure 9** illustrates a flow diagram for one embodiment of a method 900 of orienting an inertial sensor. In one embodiment, the method 900 is executed by block 812 of **Figure 8**.

[0095] Referring to **Figure 9**, method 900 begins with detecting a stepping period (block 910). In one embodiment, the method 900 may begin by detecting a stepping cadence. At block 915, rolling averages of accelerations are created. The rolling averages of accelerations may be created based on the stepping period (or stepping cadence). In one embodiment, multiple rolling averages of accelerations are created.

[0096] At block 920, a dominant axis is assigned. In one embodiment, the dominant axis is assigned after identifying a gravitational influence. The gravitational influence may be identified by calculating total acceleration based upon the acceleration on each axis. In one embodiment, the percentage of the total acceleration

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can then be assigned to each axis and an approximate device orientation can be determined.

[0097] In the foregoing description, numerous specific details have been set forth such as examples of specific systems, languages, components, etc. in order to provide a thorough understanding of the present invention. It will be apparent, however, to one skilled in the art that these specific details need not be employed to practice the present invention. In other instances, well known materials or methods have not been described in detail in order to avoid unnecessarily obscuring the present invention.

[0098] The present invention may be performed by hardware components or may be embodied in machine-executable instructions, which may be used to cause a general-purpose or special-purpose processor programmed with the instructions to perform the method described above. Alternatively, the method may be performed by a combination of hardware and software.

[0099] The present invention may be provided as a computer program product, or software, that may include a machine-readable medium having stored thereon instructions, which may be used to program a computer system (or other electronic devices) to perform a process according to the present invention. The machine-readable medium may include, but is not limited to, floppy diskettes, optical disks, CD-ROMs, and magneto-optical disks, ROMs, RAMs, EPROMs, EEPROMs, magnetic or optical cards, flash memory, or other type of media or machine-readable mediums suitable for storing electronic instructions.

[00100] In the foregoing specification, the invention has been described with reference to specific exemplary embodiments thereof. It will, however, be evident that

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various modifications and changes may be made thereto without departing from the broader spirit and scope of the invention as set forth in the appended claims. The specification and drawings are, accordingly, to be regarded in an illustrative rather than a restrictive sense.

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#### CLAIMS

What is claimed is:

 A method of monitoring human activity using an inertial sensor, comprising: continuously determining an orientation of the inertial sensor; assigning a dominant axis; updating the dominant axis as the orientation of the inertial sensor changes; and

counting periodic human motions by monitoring accelerations relative to the dominant axis.

2. The method of claim 1, further comprising:

using acceleration measurements along only the dominant axis to count steps.

3. The method of claim 1, further comprising:

maintaining a cadence window, wherein the cadence window is continuously updated as an actual cadence changes; and

counting a periodic human motion when an acceleration measurement that meets motion criteria is within the cadence window.

4. The method of claim 3, wherein at least one of the motion criteria is a dynamic motion criterion, the dynamic motion criterion being continuously updated to reflect current conditions.

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5. The method of claim 4, wherein the dynamic motion criteria includes at least a lower threshold, wherein the lower threshold is adjusted based on at least one of a rolling average of accelerations and the orientation of the inertial sensor.

 A method of monitoring human activity using an inertial sensor, comprising: running a device that includes the inertial sensor in a non-active mode, in which periodic human motions are buffered;

switching the device from the non-active mode to an active mode, after identifying a number of periodic human motions within appropriate cadence windows; and

during the active mode, counting each of the periodic human motions to enable the monitoring of human activity.

7. The method of claim 6, wherein running the device in a non-active mode comprises running the device in one of an exit mode and an entry mode.

#### 8. The method of claim 7, wherein:

a requirement for switching the device from the exit mode to the active mode is lower than a requirement for switching the device from the entry mode to the active mode.

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9. The method of claim 6, further comprising:

switching the device from the active mode to the non-active mode when a number of expected periodic human motions are not identified in the appropriate cadence windows.

10. The method of claim 6, further comprising:

switching from a sleep mode to the non-active mode of operation when an acceleration is detected.

11. An inertial sensor based device, comprising:

a dominant axis logic, to continuously determine an orientation of a device, to assign a dominant axis, and to update the dominant axis as the orientation of the device changes; and

a counting logic to count periodic human motions by monitoring accelerations relative to the dominant axis.

#### 12. The device of claim 11, wherein:

The counting logic uses acceleration measurements along only the dominant axis to count steps.

13. The device of claim 11, further comprising:

a cadence logic to continuously update a dynamic cadence window; and the counting logic to count a periodic human motion when an acceleration measurement that meets motion criteria is taken within the cadence window.

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14. The device of claim 11, further comprising:

a comparator, to compare measurements of acceleration to dynamic motion criteria, the dynamic motion criteria being continuously updated to reflect current conditions; and

the counting logic to count a periodic human motion when the measurements of acceleration satisfy the dynamic motion criteria.

15. A device including an inertial sensor, comprising:

a counting logic, to identify and count periodic human motions;

a mode logic, to switch the device from a non-active mode to an active mode after a number of periodic human motions are detected within appropriate cadence windows by the counting logic; and

a buffer, to buffer periodic human motions when the device is in the non-active mode.

16. The device of claim 15, wherein the non-active mode comprises one of an exit mode and an entry mode.

17. The device of claim 16, wherein:

a requirement for the mode logic to switch the device from the exit mode to the active mode is lower than a requirement for the mode logic to switch the device from the entry mode to the active mode.

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18. The device of claim 15, wherein:

the mode logic to switch the device from the active mode to the non-active mode when a number of expected periodic human motions are not identified in the appropriate cadence windows.

# 19. The device of claim 15, further comprising:a cadence logic, to set the appropriate cadence windows.

20. The device of claim 19, wherein the cadence logic adjusts the cadence windows based on a measured cadence associated with the periodic human motion.

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#### ABSTRACT

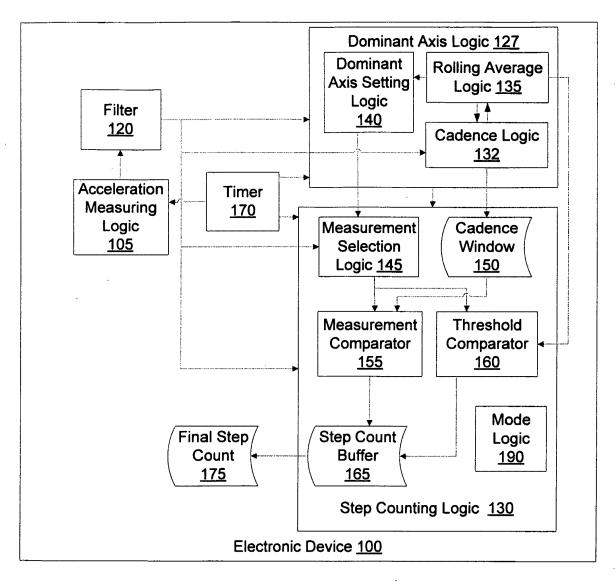
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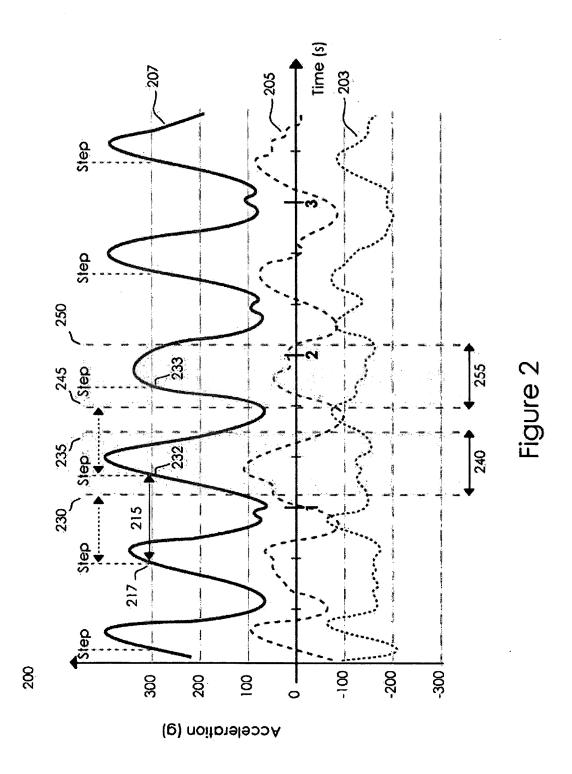
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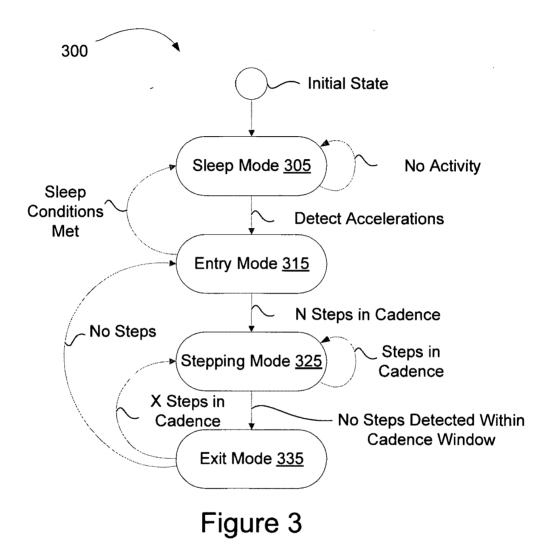
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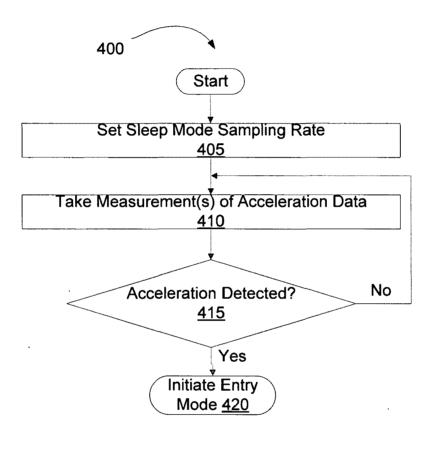
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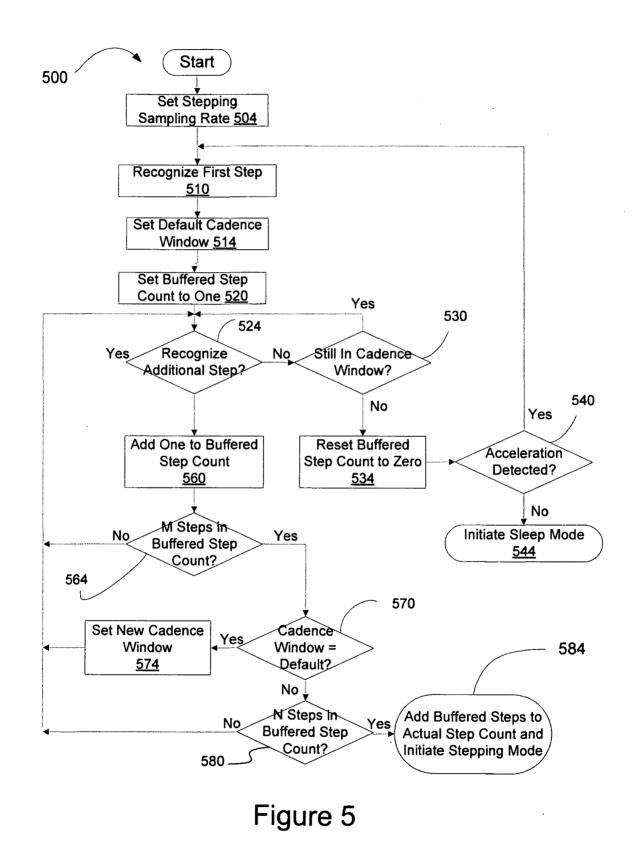
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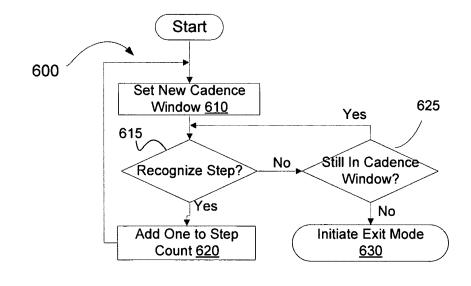


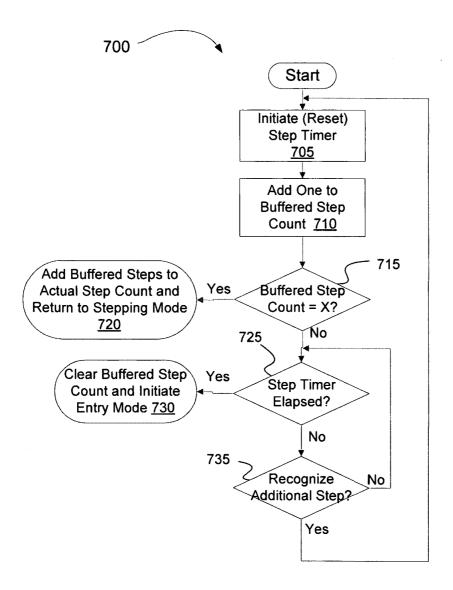


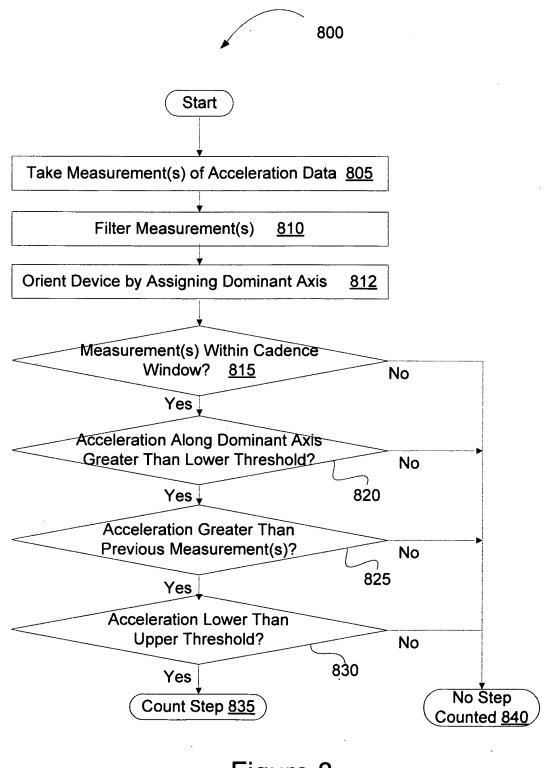


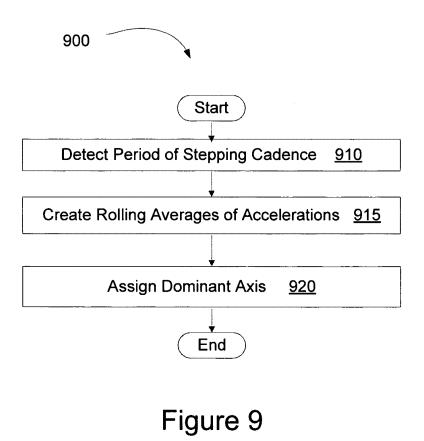












Attorney Docket No.: 7538.P027

First Named Inventor: Philippe Kahn

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_X	Declaration Submitted with	
	Initial Filing	OR
	Declaration Submitted After	
	Initial Filing (Surcharge under	
	37 C.F.R. § 1.16(e) Required	).

Patent

Complete If Known:

Application No.:	Not yet assigned
Filing Date:	Herewith
Art Unit:	Not yet assigned
Examiner Name	: Not yet assigned

#### DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION

#### I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

#### HUMAN ACTIVITY MONITORING DEVICE (Title of the Invention)

the specification of which

is attached hereto **OR** was filed on (MM/DD/YYYY) <u>Herewith</u> as United States Application Number <u>Not yet assigned</u> or PCT International Application Number and was amended on (MM/DD/YYYY)

(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

BSTZ ONLY (LONG FORM) Rev. 07/01/04 -1/4-

Atty. Docket: 7538.P027

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed:

Prior Foreign App	lication(s)		Priori <u>Claim</u>		Certifie Copy A	ed <u>Attached</u> ?
(Number)	(Country)	(Foreign Filing Date - MM/DD/YYYY)	Yes	No	Yes	No
(Number)	(Country)	(Foreign Filing Date - MM/DD/YYYY)	Yes	No	Yes	No
(Number)	(Country)	(Foreign Filing Date - MM/DD/YYYY)	Yes	No	Yes	No

#### **Appointment of Patent Practitioners:**

1.

I hereby appoint the patent practitioners associated with the **Customer Number 08791** as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.

If this patent application is assigned, then the undersigned hereby authorizes the patent attorneys and patent agents named herein to accept and follow instructions from the assignee(s) as to any action to be taken in the United States Patent and Trademark Office regarding this application without direct communication between the patent attorneys and patent agents and the undersigned. In the event of a change in the persons from whom instructions may be taken, at least one patent attorney or patent agent named herein will be so notified by the undersigned.

#### Direct all correspondence to (check one):

X Customer Number 08791 OR



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BSTZ ONLY (LONG FORM) Rev. 07/01/04 -2/4-

Atty. Docket: 7538.P027

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE OR FIRST INVENTOR: A petition has been filed for this unsigned inventor

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Mailing Address	122 Fairview Place Santa Cruz, CA 95062, USA			, 1 <del>.</del>

NAME OF THIRD INVENTOR: A petition has been filed for this unsigned inventor

Full Name:	Mark Andrew Christensen (Given Name (First and Middle [if any	y]), Family Name (or Sum	ame), and Suffix [if any])	
Inventor's Signatu	ire	Date _		
Residence	Santa Cruz, California, USA (City, State, Country)	Citizenship	New Zealand (Country)	
Mailing Address	215 Anchorage Avenue Santa Cruz, CA 95062, USA			

BSTZ ONLY (LONG FORM) Rev. 07/01/04 -3/4-

Atty. Docket: 7538.P027

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NAME OF FOUR	TH INVENTOR: 🗌 A petiti	on has been filed for this u	nsigned inventor
Full Name:	Brian Y. Lee (Given Name (First and Midd	le [if any]), Family Name (or Sum	ame), and Suffix [if any])
Inventor's Signatu	ire	Date	
Residence	Aptos, California, USA (City, State, Country)	Citizenship	USA (Country)
Mailing Address	777 Hudson Lane Aptos, CA 95003, USA		
NAME OF FIFTH	INVENTOR: A petition h	nas been filed for this unsig	ned inventor
Full Name:	David Vogel		
	(Given Name (First and Midd	le [if any]), Family Name (or Sum	ame), and Suffix [if any])
Inventor's Signatu	ire	Date _	
Residence	Santa Cruz, California, USA (City, State, Country)	Citizenship	USA (Country)
Mailing Address	600 Beel Drive Santa Cruz, CA 95060, USA		
Full Name:	(Given Name (First and Midd	le [if any]), Family Name (or Sum	ame), and Suffix [if any])
Residence	(City, State, Country)	Citizenship	(Country)
Mailing Address			· · · · · · · · · · · · · · · · · · ·
NAME OF SEVE	NTH INVENTOR: 🗌 A petit	ion has been filed for this u	nsigned inventor
Full Name:	(Given Name (First and Midd	le [if any]), Family Name (or Sum	ame), and Suffix (if any])
Inventor's Signatu	ıre	Date _	
Residence		Citizenship	
	(City, State, Country)	•mzonomp	(Country)
Mailing Address			
<b>BSTZ ONLY (LO</b> Rev. 07/01/04	NG FORM)	-4/4-	Atty. Docket: 7538.P027

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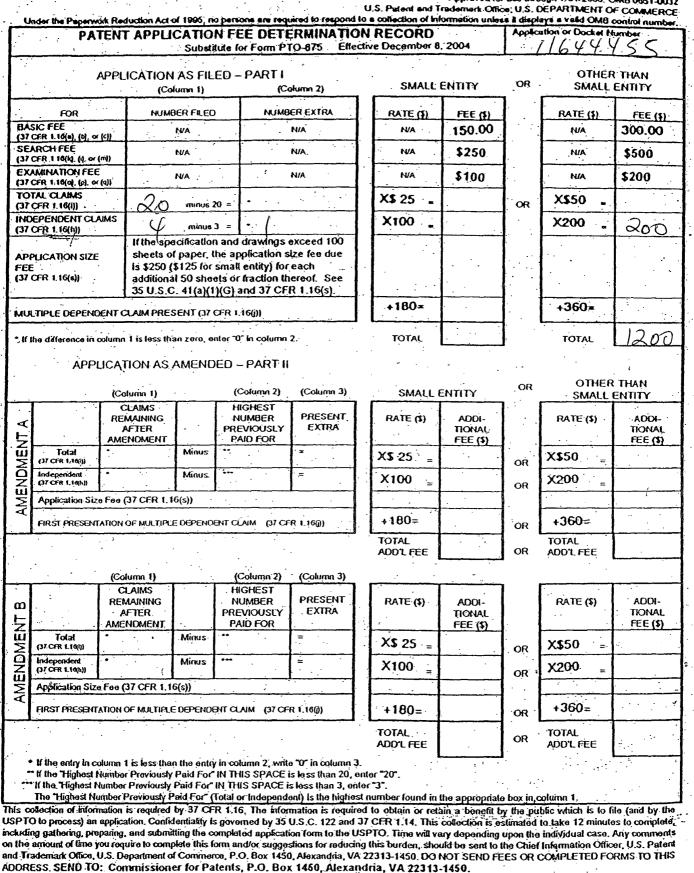
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