

(19) World Intellectual Property Organization
International Bureau



PCT



(43) International Publication Date
12 June 2008 (12.06.2008)

(10) International Publication Number
WO 2008/069969 A3

(51) International Patent Classification:
G06K 7/10 (2006.01)

(21) International Application Number:
PCT/US2007/024634

(22) International Filing Date:
30 November 2007 (30.11.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/872,628 1 December 2006 (01.12.2006) US

(71) Applicant (for all designated States except US): **ECRIO, INC.** [US/US]; 20450 Stevens Creek Blvd., Suite 250, Cupertino, CA 95014 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **CHALLA, Nagesh** [US/US]; 12300 Fredericksburg Court, Saratoga, CA 95022 (US). **GOBBURU, Venkata, T.** [US/US]; 7069 Phyllis Avenue, San Jose, CA 95129 (US). **GANNAGE,**

Michel, E. [US/US]; 25541 Altamont Road, Los Altos Hills, CA 94022 (US).

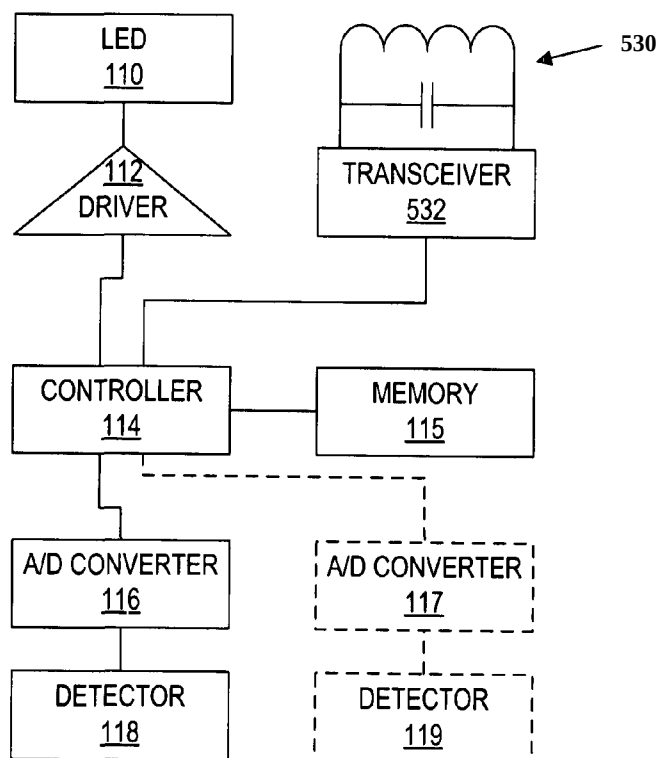
(74) Agent: **CARROLL, David, H.**; Cyr & Associates, P.A., 605 Highway 169 North, Suite 300, Plymouth, MN 55441 (US).

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

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: SYSTEM, METHOD AND APPARATUS FOR COMMUNICATING INFORMATION FROM A PERSONAL ELECTRONIC DEVICE



(57) Abstract: An accessory for a personal electronic device detects data encoded into light, sound, vibration energy, radio frequency energy, or a combination thereof, and provides the encoded data either to a bar code scanner using light, or to an NFC terminal using NFC protocols. The accessory may be stand-alone, or attachable to the personal electronic device from a suitable housing or integrated into a housing component of the personal electronic device.

WO 2008/069969 A3



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

Declaration under Rule 4.17:

- *of inventorship (Rule 4.17(iv))*

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

24 July 2008

INTERNATIONAL SEARCH REPORT

International application No
PCT/US2007/024634**A. CLASSIFICATION OF SUBJECT MATTER****G06K 7/10(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 8 G06K, G08B

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

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

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

eKIPASS(KIPO Internal) "bar", "code", "scanner", "reader", "communication", "accessory", "NPC"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X A	WO 02-058026 A1 (CROWCON DETECTION INSTRUMENTS LTD) 25 M y 2002 See claims 1 and 8, figures 1 and 2	1-8,15-18 9-14,19-29
A	US 6305607 B1 (JOSEPH KATZ et al) 23 October 2001 See claim 9, column 7, line 55 - column 8, line 27, figure 13	1-29
A	US 6974078 B1 (DAVID SIMON) 13 December 2005 See claim 1, figure 1	1-29
A	JP 10-049613 A (OPT ELECTRON CO , LTD) 20 February 1998 See claims 1 and 2, paragraphs [0015]-[0016], figures 1,2,5	1-29



Further documents are listed in the continuation of Box C



See patent family annex

* Special categories of cited documents

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

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

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

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

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

"X" document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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

"&" document member of the same patent family

Date of the actual completion of the international search

29 MAY 2008 (29 05 2008)

Date of mailing of the international search report

30 MAY 2008 (30.05.2008)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-
gu, Daejeon 302-701, Republic of Korea

Facsimile No 82-42-472-7140

Authorized officer

JEON, CHANG IK

Telephone No 82-42-48 1-826 1



INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No
PCT/US2007/024634

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 02-058026 A 1	25.07.2002	GB 200101497 A0 WO 02-058026 C2	07.03.2001 23.01.2003
US 6305607 B1	23.10.2001	None	
US 6974078 B1	13. 12. 2005	None	
JP 10-049613 A	20. 02, 1998	None	