

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 November 2007 (15.11.2007)

PCT

(10) International Publication Number
WO 2007/129227 A3

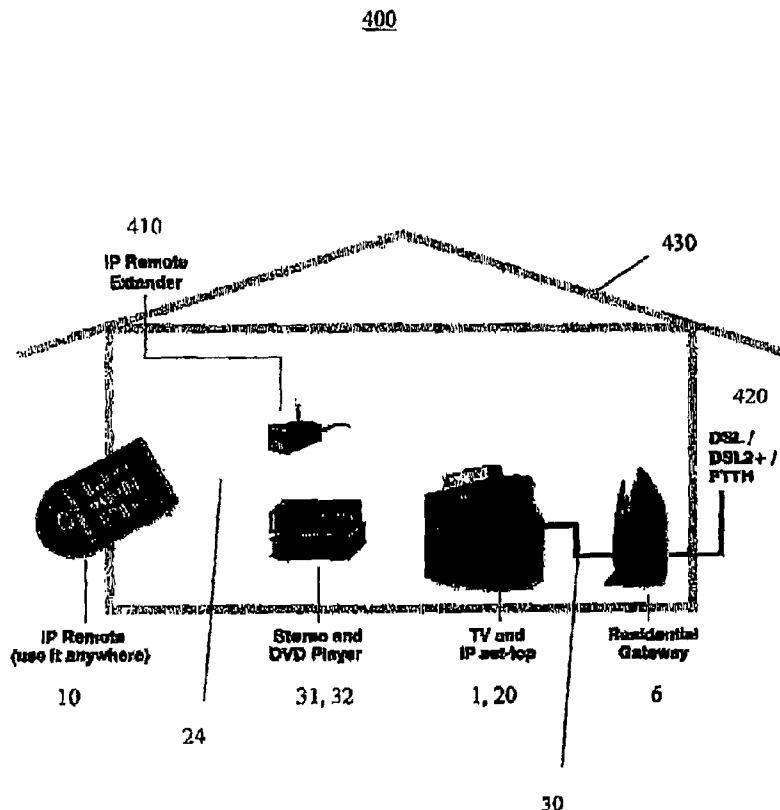
- (51) International Patent Classification:
G08C 17/02 (2006.01) G08C 23/04 (2006.01)
- (21) International Application Number:
PCT/IB2007/002562
- (22) International Filing Date: 4 May 2007 (04.05.2007)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
11/418,133 5 May 2006 (05.05.2006) US
- (71) Applicant (for all designated States except US): ALCA-
TEL LUCENT [FR/FR]; 54, rue La Boétie, F-75008 Paris
(FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): FURLONG, Jeff
[CA/CA]; 225 Woolastook Drive, Grand Bay-Westfield,
New Brunswick E5K 1S7 (CA). MCNEILL, Jared,
D. [CA/CA]; 17 Horsfield Street, Apt. 1, Saint John,
New Brunswick E2L 1L8 (CA). BEATON, Robert, J.

[CA/CA]; 39 Jones Memorial Park Road, P.O. Box 240,
Apoahqui, New Brunswick E5P 3G2 (CA).

- (74) Agent: HERVOUET, Sylvie; Feray Lenne Conseil, 39/41
Avenue Aristide Briand, F-92163 Anthony Cedex (FR).
- (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, 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),
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,

[Continued on next page]

(54) Title: A METHOD AND SYSTEM FOR EXTENDING INTERNET PROTOCOL REMOTE CONTROL TO NON-INTER-
NET PROTOCOL DEVICES



(57) Abstract: A method for controlling an infrared radiation ("IR") based consumer electronics ("CE") device with a wireless Internet Protocol ("IP") based remote control unit, the method comprising: receiving an IP message from the remote control unit through an IP receiver of an IP remote control extender system, the IP message for controlling a function of the CE device, the IP receiver for receiving IP messages over a wireless IP network; determining from the IP message a respective IR message for controlling the function; and sending the respective IR message to the CE device through an IR transmitter of the IP remote control extender system, the IR transmitter for sending IR messages over a wireless IR link, whereby a user of the remote control unit may control the function of the CE device.

WO 2007/129227 A3



PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
20 March 2008

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*
- *the filing date of the international application is within two months from the date of expiration of the priority period*

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2007/002562A. CLASSIFICATION OF SUBJECT MATTER
INV. G08C17/02 G08C23/04

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)
G08C H04L H04N

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

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

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 494 192 A (FRANCE TELECOM [FR]) 5 January 2005 (2005-01-05)	1-5, 9-15, 19, 20
Y	abstract paragraph [0022] - paragraph [0033]	6-8, 16-18
X	WO 2004/089035 A (CHOI DONG-WOOK [KR]) 14 October 2004 (2004-10-14)	1-5, 9-15, 19, 20
	abstract page 5, line 7 - page 9, line 25 claim 1 ----- -/--	

 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 document 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 another 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

10 January 2008

Date of mailing of the international search report

16/01/2008

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Peeters, Dirk

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2007/002562

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/176141 A1 (CHRISTENSEN STEVE [US] ET AL) 9 September 2004 (2004-09-09)	1-5, 9-15, 19, 20
Y	abstract paragraph [0023] - paragraph [0024] paragraph [0027] paragraph [0031] - paragraph [0041] -----	6-8, 16-18
Y	US 2003/189509 A1 (HAYES PATRICK H [US] ET AL HAYES PATRICK H [US] ET AL) 9 October 2003 (2003-10-09) abstract paragraph [0025] - paragraph [0027] paragraph [0039] - paragraph [0040] paragraph [0051] - paragraph [0055] -----	6-8, 16-18
Y	WO 01/35368 A (SIEMENS AG [DE]; NEUBAUER WERNER [DE]; VOELKSEN GERD [DE]) 17 May 2001 (2001-05-17) abstract page 1, line 1 - page 2, line 31 page 3, line 23 - page 4, line 21 page 6, line 24 - page 7, line 35 -----	6-8, 16-18
Y	US 2006/004939 A1 (EDWARDS JAMES W [US] ET AL) 5 January 2006 (2006-01-05) abstract paragraph [0010] - paragraph [0030] paragraph [0034] - paragraph [0044] -----	6-8, 16-18
Y	FELDBUSCH F ET AL: "A Bluetooth Remote Control System" LECTURE NOTES IN COMPUTER SCIENCE, SPRINGER VERLAG, BERLIN, DE, vol. 2299, 2002, pages 241-255, XP002281452 ISSN: 0302-9743 abstract paragraph [0001] - paragraph [0003] paragraph [04.3] -----	6,7,16, 17
A	WO 02/080470 A (IBM [US]; IBM UK [GB]; FU RONGYAO [CN]; SONG SONG [CN]) 10 October 2002 (2002-10-10) abstract page 3, line 25 - page 8, line 29 -----	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No PCT/IB2007/002562

Patent document cited in search report	A	Publication date	Patent family member(s)	Publication date
EP 1494192	A	05-01-2005	FR 2857211 A1	07-01-2005
WO 2004089035	A	14-10-2004	EP 1609333 A1	28-12-2005
US 2004176141	A1	09-09-2004	NONE	
US 2003189509	A1	09-10-2003	NONE	
WO 0135368	A	17-05-2001	NONE	
US 2006004939	A1	05-01-2006	NONE	
WO 02080470	A	10-10-2002	CA 2442147 A1	10-10-2002
			CN 1377144 A	30-10-2002
			EP 1374492 A2	02-01-2004
			JP 3906156 B2	18-04-2007
			JP 2004523981 T	05-08-2004
			TW 513866 B	11-12-2002
			US 2004162108 A1	19-08-2004