(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 14 June 2007 (14.06,2007)

PCT

(10) International Publication Number WO 2007/066902 A3

(51) International Patent Classification: *H04L 12/28* (2006.01) *H04Q 7/38* (2006.01) *H04B 7/26* (2006.01)

(21) International Application Number:

PCT/KR2006/004572

(22) International Filing Date:

3 November 2006 (03.11.2006)

(25) Filing Language:

English

(26) Publication Language:

English

(**30**) Priority Data: 60/733,422

3 November 2005 (03.11.2005) U

(71) Applicant (for all designated States except US): LG ELECTRONICS INC. [KR/KR]; 20, Yoido-dong, Youngdungpo-gu, Seoul 150-721 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): YOON, Young Cheul [CA/US]; 7214 Shoreline Dr. #179, San Diego, CA 92122 (US). LEE, Suk Woo [KR/US]; 11733 Boulton Ave., San Diego, CA 92128 (US). SUN, Li-Hsiang [CN/US]; 9505 Gold Coast Dr. #142, San Diego, CA 92126 (US).

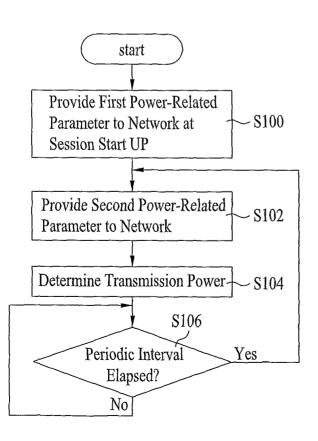
- (74) Agents: KIM, Yong In et al.; KBK & Associates, 15th Floor, Yosam-Building, 648-23 Yeoksam-dong, Kangnam-gu, Seoul 135-080 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, 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, LV, LY, MA, MD, 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, 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

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR DETERMINING THE MAXIMUM TRANSMIT POWER OF A MOBILE TER-MINAL



(57) Abstract: A method and apparatus is provided to enable a network to more efficiently determine whether additional reverse links can be assigned. Various methods are presented that allow a network to determine either the transmission power or power headroom of a mobile terminal based on information that is provided at session startup and information provided periodically. The number of additional reverse links that can be assigned to the mobile can then be estimated from the transmission power and headroom of the mobile terminal.

(88) Date of publication of the international search report: $$3\ \rm{July}\ 2008$

International application No. PCT/KR 2006/004572

A GT 4 GG	TOTAL OF SUPERCE MATTER				
IPC8: H04	FICATION OF SUBJECT MATTER L. 12/28 (2006.01); H04B 7/26 (2006.01 International Patent Classification (IPC) or to both na); H04Q 7/38 (2006.01) tional classification and IPC			
B. FIELDS	SEARCHED				
	cumentation searched (classification system followed B, H04L, H04Q	by classification symbols)			
Documentation	on searched other than minimum documentation to the	e extent that such documents are included	in the fields searched		
Electronic da	ta base consulted during the international search (nam , IEEE	ne of data base and, where practicable, sea	arch terms used)		
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	Relevant to claim No.			
, A	US 2004/166887 A1 (LAROIA et al.) (26.08.2004) Paragraphs [0010, 0012, 0045, 0046]	1, 10, 11, 13			
A	JP 2000/188597 A (MITSUBISHI ELE 4 July 2000 (04.07.2000) Paragraphs [0018, 0019, 0028]				
A	OFDM in multiple access channels; IE	, , , ,			
☐ Further	documents are listed in the continuation of Box C.	See patent family annex.			
* Special c "A" documen to be of p "E" earlier ag filing dat "L" documen cited to special re "O" documen means "P" documen	categories of cited documents: It defining the general state of the art which is not considered particular relevance oplication or patent but published on or after the internation	"T" later document published after the priority date and not in conflict to understand the principle or the all "X" document of particular relevancennot be considered novel or car an inventive step when the documer "Y" document of particular relevancennot be considered to involve document is combined with documents, such combination less that the priority date and not involve the priority date and not in conflict the priority date and not in conflict to the priority date and not in conflict the prior	with the application but cited ory underlying the invention not; the claimed invention mot be considered to involve nent is taken alone are; the claimed invention an inventive step when the one or more other such being obvious to a person		
	actual completion of the international search 8 February 2008 (28.02.2008)	Date of mailing of the international sea 20 March 2008 (20			
	nailing address of the ISA/AT Austrian Patent Office sedner Straße 87, A-1200 Vienna	Authorized officer MEHLMAUER A.			
	o. +43 / 1 / 534 24 / 535	Telephone No. +43 / 1 / 534 24 / 376			

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/KR 2006/004572

Patent document cited in search report			Publication date	Patent family member(s)			Publication date
US	A	2004166887		JР	T	2007525045T	2007-08-30
				JP	Т	2007525044T	2007-08-30
				US	A1	2007213087	2007-09-13
				CN	A	1871862	2006-11-29
				KR	Α	20050099633	2005-10-14
				KR	A	20050099632	2005-10-14
JP	A	2000188597		JP	A	2000188597	2000-07-04