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(71) Applicants (for all designated States except US): **ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE** [KR/KR]; 161, Gajeong-dong, Yuseong-gu, Daejeon, 305-350 (KR). **SAMSUNG ELECTRONICS CO., LTD.** [KR/KR]; 416, Maetan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-742 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LIM, Kwang-Jae** [KR/KR]; Sangyong Apt. 403-201, Gyuangpyung-dong,

Yuseong-gu, Daejeon, 305-509 (KR). **YOON, Chul-Sik** [KR/KR]; 4-402, Samik Sunkyoung Apt., Hagye1-dong, Nowon-gu, Seoul, 139-777 (KR).

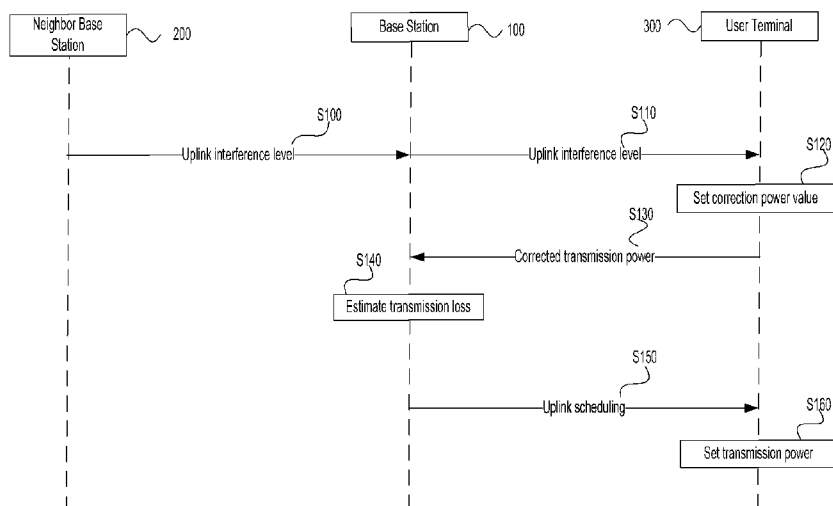
(74) Agent: **YOU ME PATENT AND LAW FIRM**; Seolim Bldg., 649-10, Yoksam-dong, Kangnam-ku, Seoul, 135-080 (KR).

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[Continued on next page]

(54) Title: POWER CONTROL AND SCHEDULING METHOD IN CONSIDERATION OF INTERFERENCE LEVELS BETWEEN NEIGHBOR SECTORS IN COMMUNICATION SYSTEM



(57) Abstract: In order to perform uplink scheduling for a terminal, a base station receives information on uplink interference due to the terminal from neighbor base stations, transmits the information on the uplink interference to the terminal, receives information on transmission power of a feedback channel from the terminal through the feedback channel, compares the transmission power of the feedback channel and reception power of the feedback channel so as to estimate transmission loss, and performs uplink scheduling for the terminal by reflecting the transmission loss.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC⁸: **H04W 52/24** (2009.01); **H04W 52/14** (2009.01); **H04W 24/10** (2009.01)

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)

IPC⁸: H04W, H04Q, H04B

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 practicable, search terms used)

EPODOC, WPI, ESPACENET

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2006/007318 A1 (Qualcomm Inc.) 19 January 2006 (19.01.2006) <i>paragraphs 6, 24, 36-43, 56, 60, 72, 89-100, and 159, table 1, figures 1 and 3-5.</i>	1-8, 11, 12
A	--	9, 10
A	US 2003/0054850 A1 (Masseroni et al.) 20 March 2003 (20.03.2003) <i>paragraphs 24-30, claim 1, figures 1, 5 and 8, abstract</i>	1-12

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

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

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

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"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
28 March 2009 (28.03.2009)Date of mailing of the international search report
9 June 2009 (09.06.2009)Name and mailing address of the ISA/ AT
Austrian Patent Office
Dresdner Straße 87, A-1200 ViennaAuthorized officer
Takács Tamás

Facsimile No. +43 / 1 / 534 24 / 535

Telephone No. +36 / 1 / 474 5868

INTERNATIONAL SEARCH REPORT

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Continuation of first sheet

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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Patent document cited in search report			Publication date		Patent family member(s)		Publication date	
WO	A	2006007318	AU	A1	2009201506		2009-05-14	
			ZA	A	200610595		2008-04-30	
			ZA	A	200700182		2008-05-28	
			US	A1	2009023466		2009-01-22	
			NZ	A	552149		2008-09-26	
			EP	A2	2003793		2008-12-17	
US	A	2003054850	CN	A	1395375		2003-02-05	
			BR	A	0202477		2003-04-29	
			US	A1	2003054850		2003-03-20	
			EP	A1	1274178		2003-01-08	