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YOUN, Jin-Hyun [KR/KR]; #118-102 Eunhaeng Apt., Changu-dong, Hanam-si, Gyeonggi-do 465-712 (KR).

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(74) Agent: **LEE, Keon-Joo**; Mihwa Bldg., 110-2 Myongryun-dong 4-ga, Chongro-gu, Seoul 110-524 (KR).

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(71) Applicant (for all designated States except US): **SAM-SUNG 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): **SON, Yeong-Moon** [KR/KR]; #203-1302 Taeyeong Desian Apt., Yeongdeok-dong, Giheung-gu, Yongin-si, Gyeonggi-do 446-591 (KR). **LEE, Kang-Gyu** [KR/KR]; #105-1704 Hyundai Home Town, Mabuk-ri, Guseong-eup, Yongin-si, Gyeonggi-do 449-562 (KR). **SON, Jung-Je** [KR/KR]; #4106-603 Eoeunmokmaeul Daewon Cantaville Apt., Jung-dong, Giheung-gu, Yongin-si, Gyeonggi-do 446-717 (KR). **LIM, Geun-Hwi** [KR/KR]; #204-1003 Saetbyeolmaeul Dongseong Apt., Bundang-dong, Bundang-gu, Seongnam-si, Gyeonggi-do 463-747 (KR). **JANG, Jae-Hyuk** [KR/KR]; #615-B STAY7, 1046-13 Ingye-dong, Paldal-gu, Suwon-si, Gyeonggi-do 442-834 (KR).

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(54) Title: METHOD FOR OPERATING CONTROL SLEEP MODE IN A COMMUNICATION SYSTEM

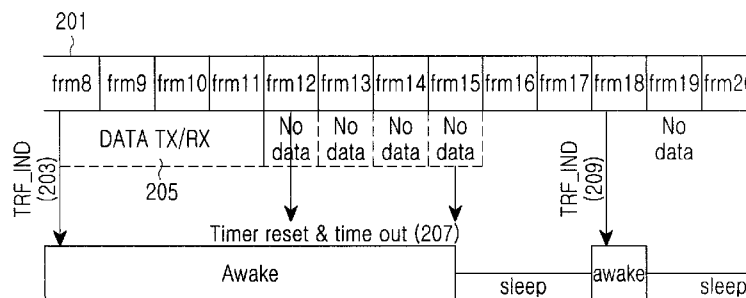


FIG.2

(57) Abstract: A method for controlling a sleep mode operation by a Mobile Station (MS) in a communication system. The MS includes transitioning to an awake state in a listening interval of the sleep mode; performing any one of a first operation, a second operation and a third operation in the awake state; and after any one operation is performed, transitioning to a sleep state upon detecting that there is no data to transmit to the BS and there is no data to be received from the BS. The first operation is a process of receiving data from the BS, the second operation is a process of transmitting data to the BS, and the third operation is a process of receiving data from the BS and receiving data from the BS.

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A. CLASSIFICATION OF SUBJECT MATTER**H04B 7/26(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 H04B 7/26, H04M 3/42

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), IEEEExplore, "slip", "frame", "control"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 2007-0051999 A (LG-NORTEL CO., LTD.) 21 May 2007 See the Abstract; Figs 1-3; Claims 1-4.	1-14
X	US 2007/0211688 A1 (Park et al.) 13 Sep. 2007 See the Abstract; Figs. 4-6; paragraphs [0005] - [0038]; Claims 1-7.	1-14
A	US 2007/0206524 A1 (Suk) 06 Sep. 2007 See the Abstract; Figs. 4-7; paragraphs [0003] - [0022]; Claims 1-8.	1-19
A	US 6,108,542 A (Swanchara et al.) 22 Aug. 2000 See the Abstract; column 3, line 11 - column 4, line 05; Claims 1-34.	1-19

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

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"&" document member of the same patent family

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