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

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **LEE, Moon Il** [KR/KR]; LG R&D Complex, 533, Hogye 1-dong, Dongan-gu, Anyang-si, Gyeonggi-do 431-749 (KR). **LEE, Wookbong** [KR/KR]; LG R&D Complex, 533, Hogye 1-dong, Dongan-gu, Anyang-si, Gyeonggi-do 431-749 (KR). **CHUNG, Jae Hoon** [KR/KR]; LG R&D Complex, 533, Hogye 1-dong, Dongan-gu, Anyang-si, Gyeonggi-do 431-749 (KR). **KWON, Yeong Hyeon** [KR/KR]; LG R&D Complex, 533, Hogye 1-dong, Dongan-gu, Anyang-si, Gyeonggi-do 431-749 (KR). **KO, Hyunsoo** [KR/KR]; LG R&D Complex, 533, Hogye 1-dong, Dongan-gu, Anyang-si, Gyeonggi-do 431-749 (KR). **IHM, Bin Chul** [KR/KR]; LG R&D Complex, 533, Hogye 1-dong, Dongan-gu, Anyang-si, Gyeonggi-do 431-749 (KR).

(74) Agent: **YANG, Moon Ock**; S&IP Patent & Law Firm, 10F, Songam Bldg., #642-10, Yeoksam-dong, Gangnam-gu, Seoul 135-080 (KR).

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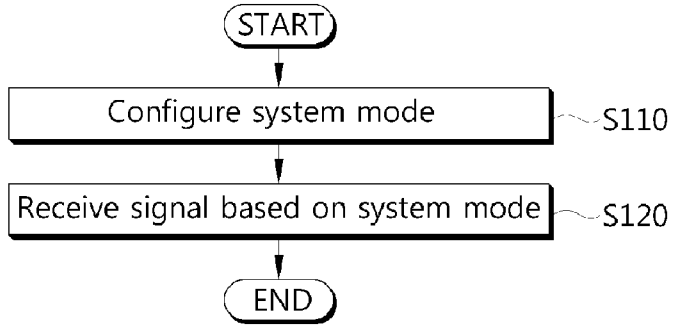
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(54) Title: METHOD AND APPARATUS FOR RECEIVING AND TRANSMITTING SIGNALS IN WIRELESS COMMUNICATION SYSTEM

[Fig. 10]



(57) Abstract: A method and apparatus for receiving and transmitting signals in a wireless communication system are provided. The method of receiving signals includes configuring a system mode and receiving the signals according to the system mode, wherein the system mode is either a first system mode or a second system mode, when the system mode is the first system mode, the signals are transmitted through a maximum of N transmit antennas, and when the system mode is the second system mode, the signals are transmitted through a maximum of M (N < M) transmit antennas.

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A. CLASSIFICATION OF SUBJECT MATTER

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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)
H04B 7/04; H04L 1/00; H04W 28/18; H04W 52/04

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Korean utility models and applications for utility models
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & Keywords: transmission mode, LTE-A

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 10-2007-0091889 A (SAMSUNG ELECTRONICS CO., LTD.) 12 September 2007 See abstract, paragraphs [0054],and [0079]-[0095], claims 1 and 10, figures 3 and 4	1-16
A	WO 03-085876 A1 (INTEL CORPORATION) 16 October 2003 See abstract, page 12, line 6 - page 13, line 15, claims 1,2,5,6,13,18, and 19, figure 3	1-16
A	KR 10-2003-0087296 A (LEE, KWANG BOK) 14 November 2003 See abstract, page 4, lines 33 - 56 , figure 3	1-16

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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Korean Intellectual Property Office
Government Complex-Daejeon, 139 Seonsa-ro, Seo-gu, Daejeon 302-701, Republic of Korea
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Authorized officer
JEONG Heon Ju
Telephone No. 82-42-481-8356

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