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**(54) Title (EN):** METHOD AND DEVICE FOR TRANSMITTING AND RECEIVING SIGNAL IN WIRELESS COMMUNICATION SYSTEM

**(54) Title (FR):** PROCÉDÉ ET DISPOSITIF D'ÉMISSION ET DE RÉCEPTION D'UN SIGNAL DANS UN SYSTÈME DE COMMUNICATION SANS FIL

**(54) Title (KO):** 무선 통신 시스템에서 신호를 송수신하는 방법 및 장치

**(57) Abstract:**

**(EN):** A method and device for transmitting and receiving a signal in a wireless communication system according to an embodiment of the present invention includes: transmitting a physical random access channel (PRACH); and receiving a random access response (RAR) on the basis of the PRACH, wherein the PRACH is composed of N\_MAX sequences mapped on the frequency domain, the N\_MAX sequences are formed of M groups each including N sequences, the N\_MAX sequences have the same length, the N\_MAX sequences are generated on the basis of the same base sequence, the N sequences respectively have different cyclic shift (CS) values applied thereto; and the pattern of the different CS values may be the same for the M groups.

**(FR):** La présente invention concerne un procédé et un dispositif d'émission et de réception d'un signal dans un système de communication sans fil. Selon un mode de réalisation de la présente invention, ledit procédé comprend : l'émission d'un canal physique d'accès aléatoire (PRACH) ; et la réception d'une réponse d'accès aléatoire (RAR) sur la base du PRACH, le PRACH étant composé de N\_MAX séquences mappées sur le domaine fréquentiel. Les N\_MAX séquences sont formées de M groupes comprenant chacun N séquences, les N\_MAX séquences ont la même longueur et sont générées sur la base de la même séquence de base. Des valeurs de décalage cyclique (CS) différentes sont appliquées aux N séquences, et le modèle des différentes valeurs de CS peut être le même pour les M groupes.

**(KO):** 본 발명의 일 실시예에 따른 무선 통신 시스템에서 신호를 송수신하는 방법 및 장치는, PRACH (Physical Random Access Channel)를 전송하고, 상기 PRACH에 기반하여 RAR (Random Access Response)을 수신하는 것을 포함하며, 상기 PRACH는, 주파수 도메인 상에 매핑된 N\_MAX개의 시퀀스(sequence)들로 구성되고, 상기 N\_MAX개의 시퀀스들은 N개의 시퀀스들을 포함하는 M개의 그룹들로 구성되고, 상기 N\_MAX개의 시퀀스들은 동일한 길이를 가지며, 상기 N\_MAX개의 시퀀스들은 동일한 기본 시퀀스(base sequence)를 기반으로 생성되고, 상기 N개의 시퀀스들 각각에는 다른 CS (Cyclic shift) 값들이 적용되며, 상기 다른 CS 값들의 패턴은 상기 M개의 그룹들에 대해 동일할 수 있다.

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