



US 20230231648A1

(19) **United States**

(12) **Patent Application Publication**
SEO et al.

(10) **Pub. No.: US 2023/0231648 A1**

(43) **Pub. Date: Jul. 20, 2023**

(54) **METHOD FOR TRANSMITTING OR RECEIVING SIGNAL IN WIRELESS COMMUNICATION SYSTEM AND APPARATUS THEREFOR**

(71) Applicant: **LG Electronics Inc.**, Seoul (KR)

(72) Inventors: **Inkwon SEO**, Seoul (KR); **Yunjung YI**, Seoul (KR)

(21) Appl. No.: **18/186,383**

(22) Filed: **Mar. 20, 2023**

(52) **U.S. Cl.**

CPC **H04L 1/0038** (2013.01); **H04L 1/0071** (2013.01); **H04L 25/0202** (2013.01); **H04L 5/0053** (2013.01); **H04L 5/00** (2013.01); **H04L 1/0072** (2013.01); **H04L 1/0046** (2013.01); **H04L 1/0009** (2013.01); **H04L 1/00** (2013.01); **H04L 5/0007** (2013.01); **H04W 72/23** (2023.01)

(57)

ABSTRACT

Related U.S. Application Data

- (63) Continuation of application No. 17/308,701, filed on May 5, 2021, now Pat. No. 11,652,570, which is a continuation of application No. 16/796,495, filed on Feb. 20, 2020, now Pat. No. 11,018,803, which is a continuation of application No. 16/064,754, filed on Jun. 21, 2018, now Pat. No. 10,615,910, filed as application No. PCT/KR2018/004725 on Apr. 24, 2018.
- (60) Provisional application No. 62/519,157, filed on Jun. 13, 2017, provisional application No. 62/489,419, filed on Apr. 24, 2017.

Publication Classification

- (51) **Int. Cl.**
H04L 1/00 (2006.01)
H04L 25/02 (2006.01)
H04L 5/00 (2006.01)

According to one embodiment of the present invention, a method of receiving DCI by a UE includes receiving bundling information regarding REGs via higher layer signaling, performing blind detection for a PDCCH in a CORESET configured on a plurality of OFDM symbols, and acquiring DCI from the PDCCH. When the bundling information indicates a first value, the UE may perform bundling such that only REGs locating on a same RB and corresponding to different OFDM symbols in the CORESET, are bundled as 1 REG bundle, and when the bundling information indicates a second value, the UE may perform bundling such that the REGs locating on the same RB and corresponding to the different OFDM symbols are bundled as 1 REG bundle along with REGs locating on different RBs in the CORESET, and the UE may perform the blind detection of the PDCCH by assuming same precoding for REGs belonging to a same REG bundle as a result of REG bundling.

