

1) Family number: 71153747 (US2019116009 AA)

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Title: METHOD AND APPARATUS FOR RECEIVING OR TRANSMITTING DOWNLINK SIGNAL IN WIRELESS COMMUNICATION SYSTEM

Abstract: According to one embodiment of the present invention, a method of decoding, by a user equipment, a downlink signal in a wireless communication system comprises the steps of: receiving a semi-persistent zero power-channel state information reference signal (SP ZP CSI-RS) resource configuration from a base station; and decoding a downlink signal according to the SP ZP CSI-RS resource configuration. The SP ZP CSI-RS resource configuration includes a plurality of SP ZP CSI-RS resources and information on whether or not each of a plurality of the SP ZP CSI-RS resources is used can be indicated or configured by the base station.

Classifications:

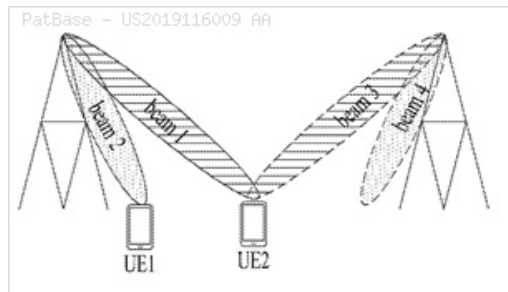
International (IPC 8-9): H04B17/336 H04B7/0408 H04B7/06 H04L1/00 H04L27/26 H04L5/00 H04W24/10 H04W72/04

CPC: H04B17/336 H04B7/0408 H04B7/0626 H04L1/00 H04L1/0047 H04L1/0067 H04L5/00 H04L5/0023 H04L5/0035 H04L5/0037 H04L5/0048 H04L5/005 H04L5/0053 H04L5/0057 H04L5/0082 H04L5/0094 H04W24/10 H04W72/042 H04W72/0446 H04W72/0453

US: 1/1

JP F-Term: 5K004 5K067 5K067/DD11 5K067/EE02 5K067/EE10

JP F-Index: H04L27/26,114 H04W72/04,136



Family:

Publication number	Publication date	Application number	Application date
CN110383744 A	20191025	CN201880016369	20180306
EP3471320 A1	20190417	EP20180763060	20180306
EP3471320 A4	20200226	EP20180763060	20180306
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KR20200021556 A	20200228	KR20207005032	20180306
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US10756859 BB	20200825	US20180065383	20180306
US2019116009 AA	20190418	US20180065383	20180306
US2020112407 AA	20200409	US20190703353	20191204
US2020106580 AA	20200402	US20190703380	20191204
WO18164452 A1	20180913	WO2018KR02646	20180306

Priority:

US20170467248P 20170306 US20170490602P 20170427 US20170519877P 20170615
WO2018KR02646 20180306 US20180065383 20180306 US20180065383 20181214
US20190703380 20191204 US20190703353 20191204

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Agent(s): FISH AND RICHARDSON PC; KIM YONG IN ET AL; MAIKOWSKI AND NINNEMANN PATENTANWALTE PARTNERSCHAFT MBB

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

2) Family number: 70718099 (US2020028655 AA)

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Title: USER EQUIPMENT AND WIRELESS COMMUNICATION METHOD

Abstract: A user equipment (UE) is disclosed including a receiver that receives, from a base station (BS), Zero Power (ZP) Channel State Information-Reference Signal (CSI-RS) resource configuration information and a ZP CSI-RS. The ZP CSI-RS is transmitted as a periodic ZP CSI-RS, a semi-persistent ZP CSI-RS, or an aperiodic ZP CSI-RS. When the ZP-CSI-RS is transmitted as the periodic ZP CSI-RS or the semi-persistent ZP CSI-RS, the ZP CSI-RS resource configuration information designates periodicity and a timing offset for the periodic ZP CSI RS or the semi-persistent ZP-CSI-RS. The receiver receives the ZP CSI-RS based on a ZP CSI RS resource specified using the periodicity and the timing offset. When the ZP CSI-RS is transmitted as the aperiodic ZP CSI-RS, the receiver receives DCI that triggers the aperiodic ZP CSI-RS. The receiver receives

the ZP CSI-RS based on a ZP CSI-RS resource specified using the DCI.

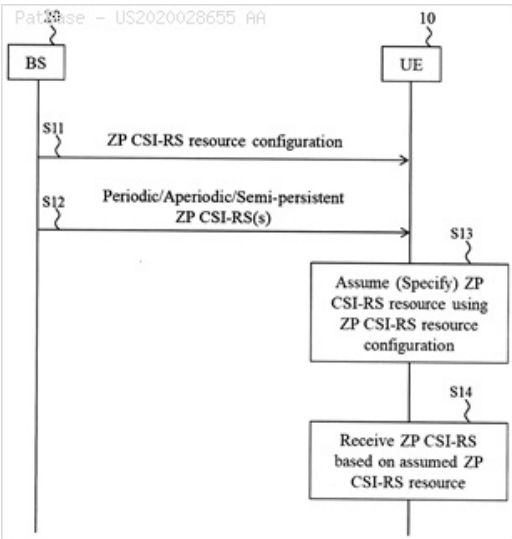
Classifications:

International (IPC 8-9): H04B7/06 H04L1/00 H04L27/26 H04L5/00 H04W16/28 H04W72/04 H04W76/27 H04W80/02

CPC: H04L1/0026 H04L5/0048 H04L5/0051 H04L5/0073 H04L5/0098 H04W72/042 H04W76/27 H04W80/02

JP F-Term: 5K004 5K067 5K159 5K067/DD11 5K067/EE02 5K067/EE10 5K067/EE64 5K067/KK02 5K067/KK03

JP F-Index: H04B7/06,986 H04L27/26,114 H04W16/28 H04W72/04,136



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CN110291747 A	20190927	CN201880010319	20180202
EP3577844 A1	20191211	EP20180708505	20180202
JP2020507988 T2	20200312	JP20190542198T	20180202
US2020028655 AA	20200123	US20180483276	20180202
WO18144920 A1	20180809	WO2018US16710	20180202

Priority:

US20170454480P 20170203 WO2018US16710 20180202 US20180483276 20180202

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Agent(s): HOFFMANN EITLE; SCHERER THOMAS K ET AL

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