

Title (en)

METHOD AND APPARATUS FOR ENABLING UPLINK MIMO

Title (de)

VERFAHREN UND VORRICHTUNG ZUR ERMÖGLICHUNG VON UPLINK-MIMO

Title (fr)

PROCÉDÉ ET APPAREIL CONÇUS POUR PERMETTRE UNE OPÉRATION MIMO EN LIAISON MONTANTE

Publication

EP 3449579 A2 20190306 (EN)

Application

EP 17789920 A 20170426

Priority

- US 201662327725 P 20160426
- US 201662413725 P 20161027
- US 201762470622 P 20170313
- US 201715491927 A 20170419
- KR 2017004462 W 20170426

Abstract (en)

[origin: WO2017188736A2] The present disclosure relates to a pre-5th-Generation (5G) or 5G communication system to be provided for supporting higher data rates Beyond 4th-Generation (4G) communication system such as Long Term Evolution (LTE). Methods and apparatuses enabling uplink multiple-input multiple-output (MIMO) are provided. A user equipment (UE) includes a transceiver and a processor operably connected to the transceiver. The transceiver is configured to receive an uplink (UL) grant for an UL transmission. The processor is configured to decode a precoding information field in downlink control information (DCI) associated with the UL grant. The precoding information field includes at least one precoding matrix indicator (PMI) corresponding to a plurality of precoders. The transceiver is further configured to precode a data stream according to the precoders indicated by the precoding information field and transmit the precoded data stream on an UL channel.

IPC 8 full level

H04B 7/0404 (2017.01); **H04B 7/0456** (2017.01)

CPC (source: CN EP KR)

H04B 7/0404 (2013.01 - KR); **H04B 7/0456** (2013.01 - CN KR); **H04B 7/0478** (2013.01 - EP); **H04B 7/0486** (2013.01 - CN); **H04B 7/0617** (2013.01 - CN); **H04B 7/0626** (2013.01 - CN KR); **H04B 7/0632** (2013.01 - CN); **H04B 7/0634** (2013.01 - EP); **H04B 7/086** (2013.01 - CN); **H04L 5/0048** (2013.01 - KR); **H04L 27/2636** (2013.01 - KR); **H04W 72/0453** (2013.01 - CN); **H04W 72/232** (2023.01 - CN); **H04W 72/542** (2023.01 - CN); **H04B 7/0404** (2013.01 - EP); **H04B 7/10** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2017188736 A2 20171102; **WO 2017188736 A3 20180719**; CN 109075828 A 20181221; CN 109075828 B 20230428; CN 116346179 A 20230627; EP 3449579 A2 20190306; EP 3449579 A4 20190424; KR 102587760 B1 20231011; KR 20180129875 A 20181205; KR 20220156098 A 20221124

DOCDB simple family (application)

KR 2017004462 W 20170426; CN 201780026321 A 20170426; CN 202310355624 A 20170426; EP 17789920 A 20170426; KR 20187031209 A 20170426; KR 20227039177 A 20170426