

METHOD FOR COMMUNICATING DOWNLINK CONTROL SIGNAL, BASE STATION, AND USER EQUIPMENT

ABSTRACT

Embodiments of the present invention provide a method for communicating a downlink
5 control signal, a base station, and a user equipment. The method includes: mapping, by a base
station according to an order of OFDM symbols used by an E-PDCCH of a user equipment
UE, the E-PDCCH sequentially to resource elements used to transmit the E-PDCCH in each
OFDM symbol; and sending, by the base station, the E-PDCCH to the UE by using the
resource elements, where the E-PDCCH and a PDSCH invoked by the E-PDCCH are
10 frequency-division multiplexed. In the present invention, the E-PDCCH can be mapped,
according to an order of OFDM symbols used by an E-PDCCH of a UE, sequentially to
resource elements used to transmit the E-PDCCH in each OFDM symbol, so that different
control channel elements of E-PDCCHs at different aggregation levels will not include a
same E-PDCCH modulation symbol, thereby avoiding that the UE judges a start position of
15 the E-PDCCH incorrectly.

Figure 2