

Title (en)

MULTI-ANTENNA MOBILE DEVICE AND NETWORK DEVICES FOR WIRELESS COMMUNICATIONS

Title (de)

MOBILGERÄT MIT MEHREREN ANTENNEN UND NETZWERKGERÄTE FÜR DRAHTLOSE KOMMUNIKATION

Title (fr)

DISPOSITIF MOBILE MULTIANTENNE ET DISPOSITIFS DE RÉSEAU POUR COMMUNICATIONS SANS FIL

Publication

**EP 3782391 A1 20210224 (EN)**

Application

**EP 18723814 A 20180508**

Priority

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Abstract (en)

[origin: WO2019214812A1] The present invention provides a mobile device and a network device, respectively, for wireless communications, particularly V2X communications. The mobile device comprises more than one antenna. The mobile device is configured to transmit capability information to a network device and/or another mobile device. The capability information includes an indication regarding the capability of the mobile device to communicate using multiple antennas, and includes an antenna characteristic of, at least, one of the multiple antennas. The network device is configured to receive the capability information from the mobile device, and to determine an antenna set to be used by the mobile device for communicating with the other mobile device based on the received capability information. Then, the network device is configured to transmit information about the antenna set to the mobile device. Alternatively, mobile devices could exchange capability and characteristics information among each other so as to make a distributed selection about the best antenna set to be used.

IPC 8 full level

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