

Title (en)

BEAMFORMED TRANSMISSION TOWARDS A RADIO TRANSCEIVER DEVICE

Title (de)

STRAHLGEFORMTE ÜBERTRAGUNG HIN ZU EINER FUNKSENDEEMPFÄNGERVORRICHTUNG

Title (fr)

TRANSMISSION FORMÉE EN FAISCEAU VERS UN DISPOSITIF ÉMETTEUR-RÉCEPTEUR RADIO

Publication

**EP 4026258 A1 20220713 (EN)**

Application

**EP 19765234 A 20190904**

Priority

EP 2019073611 W 20190904

Abstract (en)

[origin: WO2021043399A1] There is provided mechanisms for beamformed transmission towards a second radio transceiver device. A method is performed by a first radio transceiver device. The first radio transceiver device comprises an antenna array divided into at least two panels. The method comprises obtaining an indication of which precoder has been reported by the second radio transceiver device. The precoder corresponds to a phase difference  $P$  between the panels. The method comprises mapping the phase difference  $P$  to a set of at least one phase difference  $p(n)$ ,  $n$  being a positive integer, between individual antenna elements within each panel. The method comprises selecting one phase difference  $p(n^*)$  from the set of at least one phase difference  $p(n)$  in the set based on an estimated direction towards the second radio transceiver device, where  $n^*$  is the selected positive integer. The method comprises applying the precoder on the panels for beamformed transmission towards the second radio transceiver device whilst applying the selected phase difference  $p(n^*)$  between the individual antenna elements within each panel. 15 P78064 WO1

IPC 8 full level

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CPC (source: EP)

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