

Title (en)

BEAM STEERING IN A CELLULAR COMMUNICATION SYSTEM

Title (de)

STRAHLSTEUERUNG IN EINEM ZELLULARKOMMUNIKATIONSSYSTEM

Title (fr)

ORIENTATION DE FAISCEAU DANS UN SYSTEME DE COMMUNICATION CELLULAIRE

Publication

EP 1320947 A1 20030625 (EN)

Application

EP 01969798 A 20010928

Priority

- EP 0111300 W 20010928
- GB 0023855 A 20000929

Abstract (en)

[origin: GB2367455A] A cellular communications system comprises a number of base stations serving respective system cells; each base station is capable of communicating with many mobile terminals within its cell and with at least some mobile terminals in adjacent cells. In accordance with the invention, transmission of comparative data received by a mobile terminal from its serving base station and from at least one other base station are communicated to the serving base station and utilised therein to adaptively influence at least the direction of transmission of the downlink beam. By this means, the downlink beam can be directed accurately at the intended mobile terminal, and the risk of interference, whether from a third party station or terminal into the downlink beam or from the downlink beam into a third party station or terminal, is substantially reduced.

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H04B 7/02; H04Q 7/36

IPC 8 full level

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