

Title (en)
BEAMFORMING METHOD AND DEVICE

Title (de)
VERFAHREN UND VORRICHTUNG ZUR STRAHLFORMUNG

Title (fr)
PROCEDE ET DISPOSITIF DE MISE EN FORME DE FAISCEAU

Publication
EP 1166393 B1 20040714 (DE)

Application
EP 00913950 A 20000324

Priority
• AT 0000072 W 20000324
• AT 56599 A 19990326

Abstract (en)
[origin: WO0059072A1] A beamforming method and device for adaptive antenna arrays containing several antenna elements (1.1 - 1.M) in a frequency duplex system downlink, whereby the antenna weights (Wk(fS)) are determined for the antenna elements (1.1 - 1.M.) for downlink transmission on the basis of directional information pertaining to the uplink; the antenna weights (Wk(fS)) are individually determined for downlink transmission on the basis of the power-angle spectrum (APSk) of the uplink of individual users (B1 - BK), whereby the power-angle spectrum (APSk) is modified by blocking out undesirable areas.

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