

Title (en)

MULTI-TRANSMITTER SYSTEM WITH BEAMFORMING

Title (de)

MEHRFACHSENDER MIT STRAHLFÖRMUNG

Title (fr)

SYSTEME COMPRENANT PLUSIEURS EMETTEURS-RECEPTEURS

Publication

**EP 1142157 A1 20011010 (EN)**

Application

**EP 99965644 A 19991214**

Priority

- SE 9902347 W 19991214
- US 22026398 A 19981223

Abstract (en)

[origin: WO0039943A1] A radio transceiver station avoids the problems of prior devices that either do not use multi-beam antennas or use multi-carrier power amplifiers, permitting signals from several transceivers to be selectively directed to one antenna lobe with low loss. The radio transceiver station includes an antenna system having a plurality of beams, a plurality of radio transmitters, each radio transmitter including a base band part and a radio frequency part having a single-carrier radio frequency power amplifier, a plurality of filters that are respectively connected to the plurality of radio transmitters and that are tunable to respective carrier signals generated by respective radio transmitters, and a switch matrix for connecting selected ones of the filters to the antenna system such that carrier signals generated by the transmitters and amplified by the single-carrier radio frequency power amplifiers can be radiated through selected beams. Each transmitter can be connected to each antenna beam independently of each other transmitter.

IPC 1-7

**H04B 7/04**; **H01Q 3/24**; **H01Q 25/00**

IPC 8 full level

**H01Q 3/24** (2006.01); **H01Q 25/00** (2006.01); **H04W 88/08** (2009.01); **H04W 16/24** (2009.01)

CPC (source: EP)

**H01Q 3/24** (2013.01); **H01Q 25/00** (2013.01); **H04W 88/08** (2013.01); **H04W 16/24** (2013.01)

Citation (search report)

See references of WO 0039943A1

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