

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

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0039943 A1 20000706; AU 2133600 A 20000731; BR 9916517 A 20010904; CA 2356879 A1 20000706; CN 1336044 A 20020213; EP 1142157 A1 20011010

DOCDB simple family (application)

SE 9902347 W 19991214; AU 2133600 A 19991214; BR 9916517 A 19991214; CA 2356879 A 19991214; CN 99816343 A 19991214; EP 99965644 A 19991214