

Title (en)
FIXED BEAM ANTENNA ARRAY, BASE STATION AND METHOD FOR TRANSMITTING SIGNALS VIA A FIXED BEAM ANTENNA ARRAY

Title (de)
FESTSTRAHL-GRUPPENANTENNE, BASISSTATION UND VERFAHREN ZUR SIGNALÜBERTRAGUNG ÜBER EINE FESTSTRAHL-GRUPPENANTENNE

Title (fr)
RESEAU D'ANTENNES A FAISCEAU FIXE, STATION DE BASE ET PROCEDE DE TRANSMISSION DE SIGNAUX PAR LE CANAL DE CE RESEAU

Publication
EP 1314223 B1 20060405 (EN)

Application
EP 00962430 A 20000902

Priority
EP 0008583 W 20000902

Abstract (en)
[origin: WO0219470A1] The invention relates to a fixed beam antenna array and a base station comprising such an antenna array. In order to provide a simpler and more efficient fixed beam antenna array it is proposed that the array comprises columns (AC1-AC4) of antenna elements (AE) for transmitting generated signals, the fixed beam antenna array comprising moreover beamforming means (BM) for adjusting phase angle and/or amplitude of the generated signals and active power amplifiers (PA) respectively assigned to said columns (AC1-AC4) of antenna elements (AE) and arranged between said beamforming means (BM) and said columns (AC1-AC4) for amplifying the signals outputted by said beamforming means (BM) and for forwarding the amplified signals to the antenna elements (AE) destined for the transmission of the signals. The invention equally relates to a method for transmitting generated signals via such a fixed beam antenna array.

IPC 8 full level
H01Q 23/00 (2006.01); **H01Q 1/24** (2006.01); **H01Q 3/26** (2006.01); **H01Q 3/40** (2006.01); **H04Q 7/36** (2006.01)

CPC (source: EP)
H01Q 1/246 (2013.01); **H01Q 3/267** (2013.01); **H01Q 3/40** (2013.01); **H01Q 23/00** (2013.01)

Cited by
EP1906690A4; DE102006028690A1; EP2902931A4; US9653817B2; WO2007124678A1; US7761070B2

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 0219470 A1 20020307; AT E322750 T1 20060415; AU 7416200 A 20020313; CN 1454404 A 20031105; DE 60027208 D1 20060518; DE 60027208 T2 20060831; EP 1314223 A1 20030528; EP 1314223 B1 20060405; ES 2259611 T3 20061016

DOCDB simple family (application)
EP 0008583 W 20000902; AT 00962430 T 20000902; AU 7416200 A 20000902; CN 00819898 A 20000902; DE 60027208 T 20000902; EP 00962430 A 20000902; ES 00962430 T 20000902