

Title (en)
DUAL POLARISED MULTI-RANGE ANTENNA

Title (de)
DUAL POLARISIERTE MEHRBEREICHSANTENNE

Title (fr)
ANTENNE MULTIGAMME A POLARISATION DOUBLE

Publication
EP 1082782 A1 20010314 (DE)

Application
EP 99953403 A 19990520

Priority
• DE 19823749 A 19980527
• EP 9903484 W 19990520

Abstract (en)
[origin: DE19823749A1] The invention relates to an improved dual polarised multi-range antenna, comprising a first and a second radiation module (1, 3) for transmitting or receiving a first frequency band and a second frequency band offset from the first. Said dual polarised multi-range antenna is characterised by the following: seen from above the antenna, the second, additional, radiation module (3) provided for the upper frequency range is located inside the dipole square of the first radiation module (1); the second radiation module (3) consists of dipolar elements (3a) which are oriented orthogonally in relation to each other; the dipolar elements (3a) of the second radiation module (3) are parallel or vertical in relation to the dipolar elements (1a) of the first radiation module (1), forming a dipole square; and the ratio of the middle frequency of the upper frequency band to that of the lower frequency band is between 1,5 and 4.

IPC 1-7
H01Q 21/29; **H01Q 21/10**; **H01Q 5/00**; **H01Q 21/26**; **H01Q 1/24**

IPC 8 full level
H01Q 1/24 (2006.01); **H01Q 5/00** (2006.01); **H01Q 5/42** (2015.01); **H01Q 21/10** (2006.01); **H01Q 21/26** (2006.01); **H01Q 21/29** (2006.01)

CPC (source: EP KR US)
H01Q 1/246 (2013.01 - EP US); **H01Q 5/42** (2015.01 - EP US); **H01Q 21/10** (2013.01 - EP US); **H01Q 21/26** (2013.01 - EP US);
H01Q 21/29 (2013.01 - EP KR US)

Citation (search report)
See references of WO 9962139A1

Cited by
DE102012023938A1; US6940465B2; US9373884B2; US7075498B2; DE102014014434A1

Designated contracting state (EPC)
CH DE DK ES FI FR GB IE IT LI SE

DOCDB simple family (publication)
DE 19823749 A1 19991209; **DE 19823749 C2 20020711**; AU 4265199 A 19991213; AU 755335 B2 20021212; BR 9911595 A 20010213; BR 9911595 B1 20130716; CA 2331681 A1 19991202; CA 2331681 C 20030415; CN 1270409 C 20060816; CN 1303528 A 20010711; DE 59906301 D1 20030821; EP 1082782 A1 20010314; EP 1082782 B1 20030716; ES 2203196 T3 20040401; HK 1038280 A1 20020308; KR 100466960 B1 20050124; KR 20010042252 A 20010525; NZ 506976 A 20020828; US 6333720 B1 20011225; WO 9962139 A1 19991202

DOCDB simple family (application)
DE 19823749 A 19980527; AU 4265199 A 19990520; BR 9911595 A 19990520; CA 2331681 A 19990520; CN 99806591 A 19990520; DE 59906301 T 19990520; EP 9903484 W 19990520; EP 99953403 A 19990520; ES 99953403 T 19990520; HK 01108717 A 20011212; KR 20007010785 A 20000928; NZ 50697699 A 19990520; US 67372700 A 20001020