

Title (en)

DUAL POLARISED MULTI-RANGE ANTENNA

Title (de)

DUAL POLARISIERTE MEHRBEREICHSSANTENNE

Title (fr)

ANTENNE MULTIGAMME A POLARISATION DOUBLE

Publication

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Application

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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

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IPC 8 full level

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Citation (search report)

See references of WO 9962139A1

Cited by

DE102012023938A1; US6940465B2; US9373884B2; US7075498B2; DE102014014434A1

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DE 59906301 D1 20030821; EP 1082782 A1 20010314; EP 1082782 B1 20030716; ES 2203196 T3 20040401; HK 1038280 A1 20020308;
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KR 20007010785 A 20000928; NZ 50697699 A 19990520; US 67372700 A 20001020