Title (en)

Orthogonally polarized transmission antenna and method of transmission

Title (de)

Orthogonal polarisierte Antenne und Übertragungsvervahren

Title (fr)

Antennes de transmission polarisées orthogonalement et procedé de transmission

Publication

EP 0994567 A2 20000419 (EN)

Application

EP 99307850 A 19991005

Priority

US 17265598 A 19981015

Abstract (en)

To address the issue of adding additional RF carriers to a transmitted signal in support of subscriber growth, an antenna configuration is utilized with orthogonally polarized transmission antenna pairs. The orthogonally polarized antennas are preferably arranged in substantially a +45 DEG /-45 DEG relationship and substantially maintain co-phase centers. By utilizing pairs of orthogonally polarized antenna components, the number of antennas necessary to transmit carrier signals can be halved. Further, undesirable size and space limitations can be avoided without a substantial loss in output carrier signals and without substantial signal interference.

IPC 1-7 (main, further and additional classification)

H04B 1/00; H01Q 21/24; H04B 7/00

IPC 8 full level (invention and additional information)

H01Q 21/24 (2006.01); **H01Q 3/26** (2006.01); **H01Q 15/00** (2006.01); **H01Q 21/00** (2006.01); **H04B 1/00** (2006.01); **H04B 7/00** (2006.01); **H04B 7/02** (2006.01); **H04B 7/10** (2006.01); **H04B 7/12** (2006.01); **H04J 11/00** (2006.01); **H04Q 7/30** (2006.01)

CPC (invention and additional information)

H01Q 21/08 (2013.01); **H01Q 1/246** (2013.01); **H01Q 21/24** (2013.01); **H01Q 21/28** (2013.01)

Cited by

SG98383A1; US7962174B2; US7053838B2; US6621469B2; US6583763B2; US6597325B2; US6690328B2

Designated contracting state (EPC)

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

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