

Title (en)
Orthogonally polarized transmission antenna and method of transmission

Title (de)
Orthogonal polarisierte Antenne und Übertragungsverfahren

Title (fr)
Antennes de transmission polarisées orthogonalement et procédé 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.

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IPC 8 full level
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CPC (source: EP KR)
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Cited by
SG98383A1; US6621469B2; US7962174B2; US10680790B2; US7053838B2; US6583763B2; US6597325B2; US6690328B2

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EP 99307850 A 19991005; AU 5348399 A 19991006; BR 9904453 A 19991007; CA 2280351 A 19990818; CN 99121507 A 19991013; JP 29312899 A 19991015; KR 19990044223 A 19991013