

Title (en)
MULTICHANNEL DISTRIBUTED WIRELESS REPEATER NETWORK

Title (de)
MEHRKANAL VERTEILTES DRAHTLOSES REPEATER NETWORK

Title (fr)
RESEAU REPETEUR RADIO MULTICANAL REPARTI

Publication
EP 1173803 A4 20061004 (EN)

Application
EP 00913615 A 20000225

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• US 12155499 P 19990225
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• US 14761799 P 19990806

Abstract (en)
[origin: WO0050971A2] A multichannel distributed wireless repeater network, methods for its operation, and system components are disclosed. The network is designed to facilitate high-bit-rate data communication within a home, office, or similarly constrained area. According to the described embodiments, RF radiation outside of the desired network area can be minimized by use of low power transmitter and repeaters, while short paths and uniform signal strength within the network area predominate, facilitating high bit rates. The network utilizes low-power RF transmitters that generally have insufficient power to reliably span the entire network of receivers. To provide uniform coverage throughout the network, channel-shifting repeaters are used. These repeaters pick up a transmitted (or retransmitted) signal on one channel, shift it to a substantially non-interfering channel, and retransmit the signal. The receivers can preferably receive signals on the best available channel, whether it be the original channel or a repeating channel. Various methods can be employed to make the channels substantially non-interfering, including frequency-division multiplexing, time-division multiplexing, code-division multiplexing, and combinations of these techniques.
[origin: WO0050971A2] A multichannel distributed wireless repeater network (58) comprising plurality of repeaters (68) communicating to a plurality of modules (62).

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H04L 12/28

IPC 8 full level
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Citation (search report)
• [Y] WO 9832244 A2 19980723 - ADC TELECOMMUNICATIONS INC [US], et al
• [Y] EP 0860953 A1 19980826 - SAGEM [FR]
• [A] US 5659879 A 19970819 - DUPUY PIERRE [FR]

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