

Title (en)  
RADIO TELEPHONE SYSTEM FOR MINIMIZING CO-CHANNEL INTERFERENCE UTILIZING GEOGRAPHIC SEPARATION OF SIGNALS AND TRANSMISSION POWER CONTROL.

Title (de)  
FUNKFERNSPRECHSYSTEM ZUR VERRINGERUNG DER GLEICHKANALSTÖRUNG UNTER VERWENDUNG EINER GEOGRAPHISCHEN TRENNUNG UND EINER SENDELEISTUNGSSTEUERUNG.

Title (fr)  
SYSTEME DE RADIOTELEPHONE PERMETTANT DE MINIMISER LES BROUILLAGES CO-CANAL GRACE A LA SEPARATION GEOGRAPHIQUE DES SIGNAUX ET A LA MAITRISE DE LA PUISSANCE D'EMISSION.

Publication  
**EP 0685128 A1 19951206 (EN)**

Application  
**EP 95906655 A 19941216**

Priority  
• IL 10805693 A 19931216  
• US 9414562 W 19941216

Abstract (en)  
[origin: WO9517048A1] A system for minimizing co-channel interference between transmission sectors at their common periphery. The system exploits the geographic separation of potentially interfering mobile transmitters (12) and utilizes transmission power control. The system employs sectorized antennas in a combined frequency hopping, TDMA system wherein each subscriber in a particular sector is assigned a time slot in the system based upon that subscriber's geographic location within that sector. The transmission power in the sector is reduced during certain predetermined time slots and subscribers who are remote from the fringe of the sector are assigned to these power reduced time slots. During up-link the transmission power for subscribers located proximal to the fringe are reduced to cause less co-channel interference between their signals and the signals from other subscribers in different sectors having the same time slot.

IPC 1-7  
**H04B 1/713**

IPC 8 full level  
**H04B 7/005** (2006.01); **H04W 52/14** (2009.01); **H04W 52/24** (2009.01)

CPC (source: EP KR)  
**H04W 52/14** (2013.01 - KR); **H04W 52/143** (2013.01 - EP); **H04W 52/146** (2013.01 - EP); **H04W 52/24** (2013.01 - EP); **H04W 52/243** (2013.01 - KR)

Citation (search report)  
See references of WO 9517048A1

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**WO 9517048 A1 19950622**; CA 2156071 A1 19950622; EP 0685128 A1 19951206; IL 108056 A 19980715; JP H08509111 A 19960924; KR 950022259 A 19950728; TW 266360 B 19951221

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**US 9414562 W 19941216**; CA 2156071 A 19941216; EP 95906655 A 19941216; IL 10805693 A 19931216; JP 51698395 A 19941216; KR 19940035457 A 19941216; TW 84102643 A 19950307