

Title (en)
USING MULTIPLE ANTENNAS TO MITIGATE SPECULAR REFLECTION

Title (de)
VERWENDUNG MEHRERER ANTENNEN ZUR SCHWÄCHUNG VON OBERFLÄCHENREFLEKTIONEN

Title (fr)
UTILISATION DE PLUSIEURS ANTENNES POUR LIMITER LA REFLEXION SPECULAIRE

Publication
EP 1020042 A1 20000719 (EN)

Application
EP 98954928 A 19980925

Priority
• US 9820076 W 19980925
• US 93932597 A 19970929

Abstract (en)
[origin: WO9917466A1] Apparatus and method for using multiple receive antennas (420A, 420B) in a satellite communication system (100) receiver (500, 700, 900) to mitigate the effects of specular reflection (202B, 402B) of a received signal (202A, 402A). The system includes first and second antennas (420A, 420B), for receiving a satellite communication signal along first and second direct (202A, 402A) and specular propagation paths (202B, 402B), respectively, and a digital maximal ration combiner (520) for combining the signals (202A, 202B, 402A, 402B, 420A, 420B) so as to maximize the signal-to-noise of the resultant combined signal.

IPC 1-7
H04B 7/08

IPC 8 full level
H01Q 3/26 (2006.01); **H04B 7/08** (2006.01); **H04B 7/216** (2006.01); **H04B 7/26** (2006.01)

CPC (source: EP KR)
H04B 7/08 (2013.01 - KR); **H04B 7/0865** (2013.01 - EP); **H04B 7/0894** (2013.01 - EP)

Citation (search report)
See references of WO 9917466A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9917466 A1 19990408; **WO 9917466 A9 19990624**; AU 1185299 A 19990423; CA 2303540 A1 19990408; CN 1115800 C 20030723; CN 1281603 A 20010124; EP 1020042 A1 20000719; JP 2001518736 A 20011016; KR 20010030790 A 20010416

DOCDB simple family (application)
US 9820076 W 19980925; AU 1185299 A 19980925; CA 2303540 A 19980925; CN 98809573 A 19980925; EP 98954928 A 19980925; JP 2000514411 A 19980925; KR 20007003376 A 20000329