

Title (en)

MOBILE STATION WITH TWO TRANSCEIVERS AND INTER-FREQUENCY METHOD

Title (de)

MOBILSTATION MIT ZWEI RADIOFREQUENZSENDERN/-EMPFÄNGERN UND VERFAHREN ZU INTERFREQUENZ-MESSUNGEN

Title (fr)

STATION MOBILE DOTEE DE DEUX EMETTEURS-RECEPTEURS ET PROCEDES INTERFREQUENCES EXECUTES AVEC CELLE-CI

Publication

EP 1219046 A2 20020703 (EN)

Application

EP 00987369 A 20001208

Priority

- EP 0012381 W 20001208
- US 46612099 A 19991222

Abstract (en)

[origin: WO0147126A2] A mobile station for a wireless cellular or PCS system has two tunable transceivers, each having its own antenna, which can be tuned independently of each other to operating frequencies of base stations of the system. The two-transceiver arrangement enables the performance of an inter-frequency soft handover method, without using a compressed mode, and an inter-frequency signal quality measurement method without using a slotted mode. Because the two antennas are spaced apart in distance, orientation or polarization, baseband signals of the transceivers are combined when the transceivers are tuned to the same operating frequency, to exploit an antenna diversity effect. Both inter-frequency methods are such that just prior to the commencement of the method, both transceivers are tuned to the same current operating frequency and are in communication with a current base station of the system, and at an intermediate stage in the method, one of the transceivers is tuned to another operating frequency while the other transceiver remains in communication with the current base station at the current operating frequency.

IPC 1-7

H04B 7/12; H04B 17/00; H04Q 7/38

IPC 8 full level

H04B 1/40 (2006.01); **H04B 7/08** (2006.01); **H04B 7/12** (2006.01); **H04B 7/26** (2006.01); **H04W 36/12** (2009.01); **H04B 7/04** (2006.01); **H04B 7/06** (2006.01); **H04B 7/10** (2006.01); **H04W 36/18** (2009.01)

CPC (source: EP KR US)

H04B 7/02 (2013.01 - KR); **H04B 7/0871** (2013.01 - EP); **H04B 7/12** (2013.01 - EP); **H04W 36/00692** (2023.05 - EP KR US); **H04W 88/06** (2013.01 - KR); **H04B 7/04** (2013.01 - EP); **H04B 7/06** (2013.01 - EP); **H04B 7/0837** (2013.01 - EP); **H04B 7/10** (2013.01 - EP)

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

WO 0147126 A2 20010628; **WO 0147126 A3 20020502**; CN 1372727 A 20021002; EP 1219046 A2 20020703; JP 2003518801 A 20030610; KR 20010102279 A 20011115

DOCDB simple family (application)

EP 0012381 W 20001208; CN 00806535 A 20001208; EP 00987369 A 20001208; JP 2001547748 A 20001208; KR 20017010589 A 20010820