

Title (en)

SOFT HANDOFF OF A CDMA REVERSE LINK

Title (de)

SOFT-WEITERREICHUNG EINER CDMA-RÜCKWÄRTSSTRECKE

Title (fr)

TRANSFERT COHERENT D'UN LIEN INVERSE AMCR

Publication

EP 1565995 A4 20061206 (EN)

Application

EP 03789911 A 20031120

Priority

- US 0337272 W 20031120
- US 42784702 P 20021120

Abstract (en)

[origin: WO2004046893A2] Method and apparatus for base stations and subscriber units allows soft handoff of a CDMA reverse link utilizing an orthogonal channel structure. Subscriber units transmit an orthogonally coded signal over a reverse link to the base stations. A given base station provides timing control of the timing offset of the reverse link signal. Based on at least one criterion, an alignment controller determines that the given base station should hand off timing control to another base station, and a soft handoff process ensues. In response to a command or message for soft handoff of the subscriber unit from the given base station to another base station, the subscriber unit makes a coarse timing adjustment to the timing of the coded signal. The subscriber unit may make fine timing adjustments based on feedback from the base station controlling timing. Multiple base stations may provide power control feedback to the subscriber unit.

IPC 1-7

H04B 1/707

IPC 8 full level

H04J 13/00 (2011.01); **H04W 36/18** (2009.01)

CPC (source: EP KR NO)

H04B 7/2628 (2013.01 - KR NO); **H04J 13/0022** (2013.01 - NO); **H04W 36/18** (2013.01 - EP KR NO); **H04W 52/146** (2013.01 - KR); **H04W 52/40** (2013.01 - NO); **H04W 56/002** (2013.01 - KR); **H04W 56/0045** (2013.01 - KR)

Citation (search report)

- [X] US 5416797 A 19950516 - GILHOUSEN KLEIN S [US], et al
- [X] US 2002009068 A1 20020124 - PROCTOR JAMES A [US], et al
- [X] NEE VAN R D J: "TIMING ASPECTS OF SYNCHRONOUS CDMA", IEEE INTERNATIONAL SYMPOSIUM ON PERSONAL, INDOOR AND MOBILE RADIO COMMUNICATIONS, 1994, pages 439 - 443, XP000619815

Citation (examination)

- US 2002122402 A1 20020905 - PERIYALWAR SHALINI S [CA], et al
- WO 0195521 A2 20011213 - QUALCOMM INC [US]
- VIJAY K. GARG: "IS-95 CDMA and CDMA2000", 6 December 1999, PRENTICE HALL, USA, article "Soft Handoff and Power Control in IS-95 CDMA", pages: 181 - 212

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004046893 A2 20040603; WO 2004046893 A3 20041028; AU 2003294428 A1 20040615; AU 2003294428 A8 20040615; CA 2506754 A1 20040603; CN 1714516 A 20051228; CN 1714516 B 20110608; EP 1565995 A2 20050824; EP 1565995 A4 20061206; JP 2006506917 A 20060223; KR 101019460 B1 20110307; KR 101047967 B1 20110712; KR 20050085092 A 20050829; KR 20070055642 A 20070530; MX PA05005395 A 20051123; NO 20052945 D0 20050616; NO 20052945 L 20050817; NO 20160875 A1 20050817; NO 338063 B1 20160725; NO 342812 B1 20180813; TW 200419952 A 20041001; TW 200824320 A 20080601; TW 201206095 A 20120201; TW 201521368 A 20150601; TW I357730 B 20120201; TW I364920 B 20120521; TW I470946 B 20150121; TW I539762 B 20160621

DOCDB simple family (application)

US 0337272 W 20031120; AU 2003294428 A 20031120; CA 2506754 A 20031120; CN 200380103601 A 20031120; EP 03789911 A 20031120; JP 2004554010 A 20031120; KR 20057009188 A 20031120; KR 20077010738 A 20031120; MX PA05005395 A 20031120; NO 20052945 A 20050616; NO 20160875 A 20160524; TW 100114978 A 20031119; TW 103124639 A 20031119; TW 92132400 A 20031119; TW 96120422 A 20031119