

Title (en)

CANDIDATE HANDOFF LIST FOR AIRBORNE CELLULAR SYSTEM

Title (de)

KANDIDATENLISTE FÜR RUFÜBERGABE IN EINEM DURCH FLUGZEUG GETRAGENES ZELLULARES SYSTEM

Title (fr)

LISTE DE TRANSFERT DE CANDIDATS POUR SYSTEME CELLULAIRE AERIEN

Publication

EP 1405441 A1 20040407 (EN)

Application

EP 01957083 A 20010629

Priority

US 0120822 W 20010629

Abstract (en)

[origin: WO03003614A1] A terrestrial cell site handoff list is dynamically maintained for an airborne cellular system (10). A beam pattern is maintained relative to an airborne cellular system repeater, but rotates relative to the geographic area of coverage. A location and heading of the airplane (35), locations of respective beams transmitted from the airplane based on airplane flight pattern data, and locations of respective cell sites within a vicinity of footprints of the respective beams transmitted from the airplane are determined. A list of viable handoff terrestrial cell site candidates is then calculated based on the beam pattern, the location and heading of the airplane, the locations of respective beams transmitted from the airplane based on airplane flight pattern data, and the locations of respective cell sites.

IPC 1-7

H04B 7/185

IPC 8 full level

H04B 7/185 (2006.01); **H04B 7/26** (2006.01); **H04W 36/00** (2009.01); **H04W 64/00** (2009.01); **H04W 84/06** (2009.01)

CPC (source: EP KR)

H04B 7/18504 (2013.01 - EP); **H04W 36/04** (2013.01 - KR); **H04W 36/32** (2013.01 - KR); **H04W 36/0061** (2013.01 - EP); **H04W 64/006** (2013.01 - EP); **H04W 84/06** (2013.01 - EP)

Citation (search report)

See references of WO 03003614A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 03003614 A1 20030109; CN 1285176 C 20061115; CN 1522506 A 20040818; EP 1405441 A1 20040407; JP 2005500722 A 20050106; KR 20040008233 A 20040128

DOCDB simple family (application)

US 0120822 W 20010629; CN 01823422 A 20010629; EP 01957083 A 20010629; JP 2003509670 A 20010629; KR 20037017179 A 20031229