



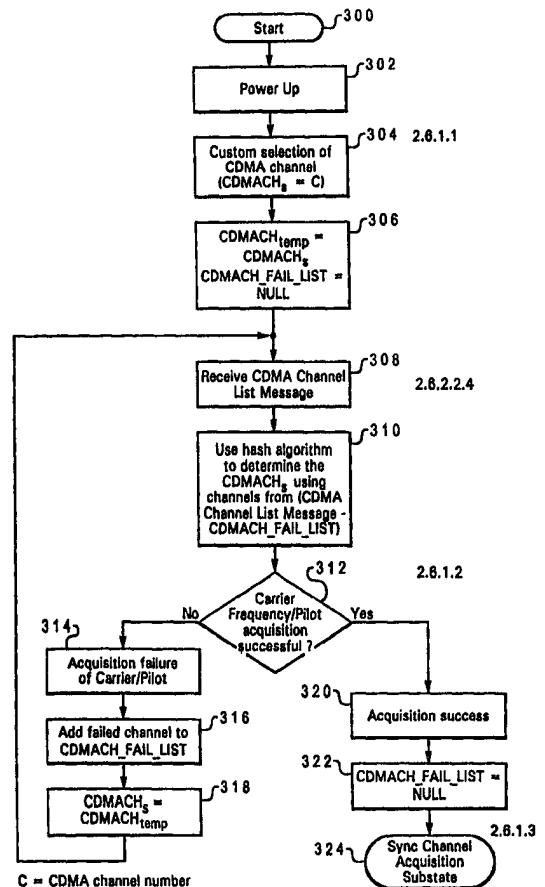
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<p>(21) International Application Number: PCT/US98/07433 (22) International Filing Date: 14 April 1998 (14.04.98) (30) Priority Data: 60/043,546 14 April 1997 (14.04.97) US 09/041,148 12 March 1998 (12.03.98) US (71) Applicant (for all designated States except US): NORTHERN TELECOM LIMITED [CA/CA]; 8th floor, 380 St. Antoine Street West, Montreal, Quebec H2Y 3Y4 (CA). (72) Inventors; and (75) Inventors/Applicants (for US only): ALAMI, Samir [US/US]; 3501 N. Jupiter Road #26C, Richardson, TX 75082 (US). CHANG, Kim [US/US]; 3114 Park Garden Place, Richardson, TX 75082 (US). (74) Agents: DILLON, ANDREW, J. et al.; Felsman, Bradley, Gunter & Dillon, LLP, Suite 350, Lakewood on the Park, 7600B North Capital of Texas Highway, Austin, TX 78731 (US).</p>	<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> (88) Date of publication of the international search report: 21 January 1999 (21.01.99)</p>	

(54) Title: METHOD AND SYSTEM FOR AVOIDING COMMUNICATION FAILURE IN CDMA SYSTEMS

(57) Abstract

A method and system for avoiding communication failure in CDMA systems. The method and system achieve their objects as follows. At least one CDMA carrier acquisition failure is detected. Channel acquisition procedures are adjusted such that the at least one CDMA carrier for which acquisition failed is no longer considered a viable channel. Channel acquisition failure detection can include storing the identity of the at least one CDMA carrier for which acquisition failed. Adjustment of channel acquisition procedures can include removing the at least one CDMA carrier for which acquisition failed from the list of carriers considered active. Adjustment of channel acquisition procedures can also include allowing CDMA carrier selection as if the detection of at least one CDMA carrier acquisition failure had not occurred, and, if the CDMA carrier selected is the at least one CDMA carrier for which acquisition failed, substituting another CDMA carrier in place of the CDMA carrier selected. Furthermore, adjustment of channel acquisition procedures can also include substituting a new seed into the pseudo-random number generator ordinarily utilized to select the CDMA carrier, and thereafter utilizing the new seed with the pseudo-random number generator ordinarily utilized to select the CDMA carrier.



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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 98/07433

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 H04Q7/32

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 H04Q H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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A	US 5 577 022 A (PADOVANI ROBERTO ET AL) 19 November 1996 see column 7, line 9 - column 14, line 18; figures 1A,3,4,5 ---	1-16
A	US 5 606 548 A (VAYRYNEN MIKA ET AL) 25 February 1997 see column 4, line 5 - column 5, line 62; figure 3 ---	1-4, 8-12, 16
A	FR 2 691 027 A (MOTOROLA INC) 12 November 1993 see page 11, line 16 - page 18, line 34 see page 20, line 12 - page 22, line 9; figures 2-7 --- -/--	1-4, 8-12, 16

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Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

THEOPISTOU, P

INTERNATIONAL SEARCH REPORT

Int'l. Application No PCT/US 98/07433
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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