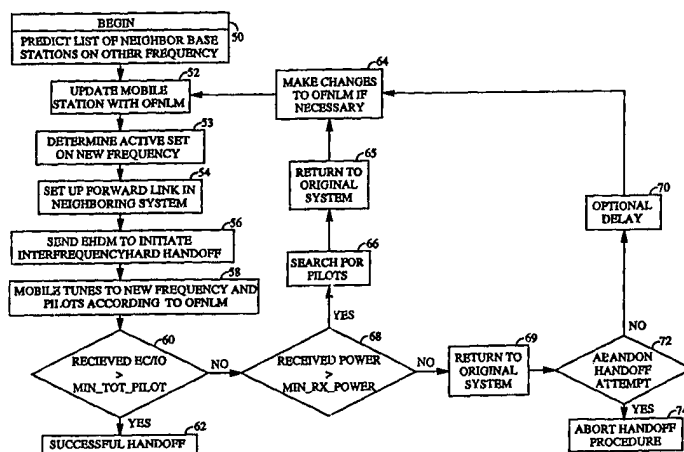




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<p>(21) International Application Number: PCT/US98/03148 (22) International Filing Date: 18 February 1998 (18.02.98) (30) Priority Data: 816,746 18 February 1997 (18.02.97) US (71) Applicant: QUALCOMM INCORPORATED [US/US]; 6455 Lusk Boulevard, San Diego, CA 92121 (US). (72) Inventors: TIEDEMANN, Edward, B., Jr.; 4350 Bromfield Avenue, San Diego, CA 92122 (US). CHEN, Tao; 8826 La Cartera Street, San Diego, CA 92129-3309 (US). (74) Agents: OGROD, Gregory, D. et al.; Qualcomm Incorporated, 6455 Lusk Boulevard, San Diego, CA 92121 (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, GH, GM, GW, HU, ID, 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, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, 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, 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).</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p> <p>(88) Date of publication of the international search report: 30 December 1998 (30.12.98)</p>	

(54) Title: METHOD OF AND APPARATUS FOR AVOIDING LOST COMMUNICATION WITH A MOBILE STATION



(57) Abstract

A method and apparatus for performing inter-system hard handoff between communication systems or inter-frequency hard handoff within a CDMA communication reduce the probability of dropped calls during inter-system hard handoff. In the event that a hard handoff attempt is unsuccessful, the mobile station (M3) will return to the original system (S1) with information which the communication system of the present invention uses to assist in the performance of future handoff attempts. Alternatively, with no handoff attempt made, the mobile station (M3) monitors the destination system (S2) then returns to the original system (S1) with information used to assist in subsequent handoff attempts. The information returned from monitoring a CDMA system consists of results of a search for one or more pilots given at offsets in a specific list provided to the mobile station by the base station or a set of offsets based upon a predetermined search algorithm.

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INTERNATIONAL SEARCH REPORT

International Application No
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According to International Patent Classification(IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
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X A X A	WO 96 12380 A (QUALCOMM INC) 25 April 1996 cited in the application see page 10, line 13 - page 14, line 22 --- US 5 594 718 A (WEAVER JR LINDSAY A ET AL) 14 January 1997 see column 3, line 24 - column 55 see column 7, line 1 - column 7, line 47 --- EP 0 719 064 A (NOKIA MOBILE PHONES LTD) 26 June 1996 see column 4, line 21 - column 4, line 41 -----	2,3 1,8,10 2,4,10 1,10-13
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Date of the actual completion of the international search <p style="text-align: center; font-size: 1.2em;">30 October 1998</p>	Date of mailing of the international search report <p style="text-align: center; font-size: 1.2em;">06/11/1998</p>	
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