



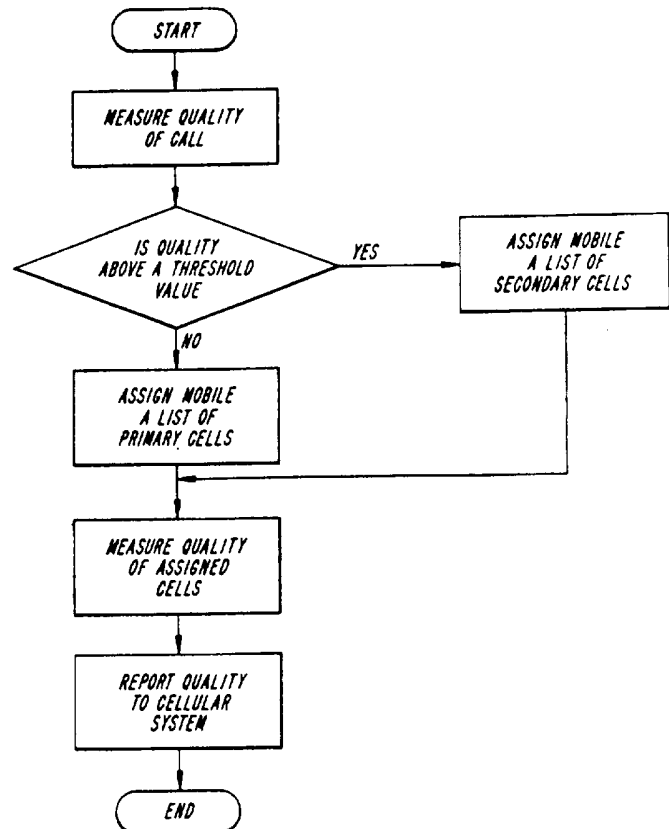
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<p>(21) International Application Number: PCT/SE95/01488 (22) International Filing Date: 11 December 1995 (11.12.95) (30) Priority Data: 354,779 12 December 1994 (12.12.94) US (71) Applicant: TELEFONAKTIEBOLAGET LM ERICSSON [SE/SE]; S-126 25 Stockholm (SE). (72) Inventors: KALLIN, Harald; Kruthornsvägen 40, S-191 53 Sollentuna (SE). FALLGREN, Anna; Baldersvägen 24, S-182 35 Danderyd (SE). (74) Agents: BOHLIN, Björn et al.; Telefonaktiebolaget LM Ericsson, Patent Dept., S-126 25 Stockholm (SE).</p>		<p>(81) Designated States: AL, AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, 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, TT, UA, UG, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, 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), ARIPO patent (KE, LS, MW, SD, SZ, UG).  <b>Published</b> <i>With international search report.</i> (88) Date of publication of the international search report: 22 August 1996 (22.08.96)</p>

(54) Title: IMPROVED MOBILE ASSISTED HANDOFF

(57) Abstract

Several mobile assisted handoff methods for use in the cellular communication system comprising a plurality of cells are disclosed. First, the quality level of a cell a mobile station is presently using is measured to determine whether the quality level is above or below a threshold. If the quality level is below the threshold, a primary list of cells is assigned to the mobile station, whereas if the quality level is above the threshold, a secondary list of cells is assigned to the mobile station. The quality level of each of the assigned cells is then measured by the mobile station and reported to the communication system.



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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 95/01488

<b>A. CLASSIFICATION OF SUBJECT MATTER</b>		
IPC6: H04Q 7/38 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>		
Minimum documentation searched (classification system followed by classification symbols)		
IPC6: H04Q		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
SE,DK,FI,NO classes as above		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0126557 A1 (AMERICAN TELEPHONE AND TELEGRAPH COMPANY), 28 November 1984 (28.11.84), page 2, line 26 - page 5, line 8 --	1-4,15-19
P,X	US 5432843 A (J.D. BONTA), 11 July 1995 (11.07.95), column 1, line 43 - line 60; column 4, line 16 - line 21 --	1-4,15-19
P,X	US 5428816 A (C.A. BARNETT), 27 June 1995 (27.06.95), column 2, line 14 - line 59 -- -----	1-4,15-19
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
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**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

01/04/96

International application No.  
PCT/SE 95/01488

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP-A1- 0126557	28/11/84	SE-T3- 0126557 CA-A- 1204165 JP-B- 7028440 JP-A- 59208951 US-A- 4475010	06/05/86 29/03/95 27/11/84 02/10/84
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US-A- 5428816	27/06/95	NONE	