



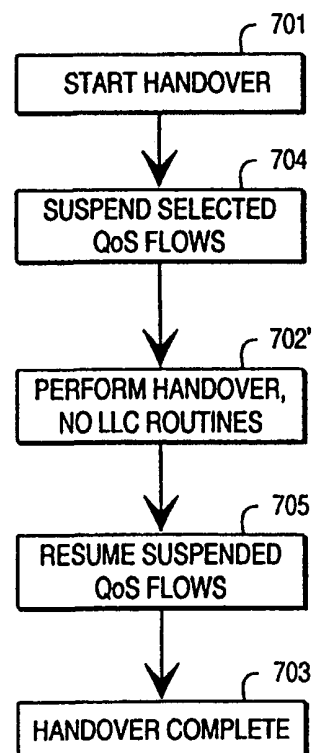
## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

<b>(51) International Patent Classification <sup>7</sup> :</b> <b>H04Q 7/38, 7/22</b>	<b>A3</b>	<b>(11) International Publication Number:</b> <b>WO 00/32001</b> <b>(43) International Publication Date:</b> 2 June 2000 (02.06.00)
<b>(21) International Application Number:</b> PCT/FI99/00964 <b>(22) International Filing Date:</b> 22 November 1999 (22.11.99) <b>(30) Priority Data:</b> 982531 23 November 1998 (23.11.98) FI <b>(71) Applicant (for all designated States except US):</b> NOKIA MOBILE PHONES LTD. [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> KALLIOKULJU, Juha [FI/FI]; Jokioistentie 5, FIN-37470 Vesilahti (FI). TURUNEN, Matti [FI/FI]; Kirkkoladonkatu 28 B 7, FIN-33560 Tampere (FI). SUUMÄKI, Jan [FI/FI]; Teekkarinkatu 5 A 23, FIN-33720 Tampere (FI). <b>(74) Agent:</b> BERGGREN OY AB; P.O. Box 16, FIN-00101 Helsinki (FI).	<b>(81) Designated States:</b> AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, 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, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, 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, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i> <b>(88) Date of publication of the international search report:</b> 27 July 2000 (27.07.00)	

**(54) Title:** METHOD AND ARRANGEMENT FOR AVOIDING LOSS OF ERROR-CRITICAL NON-REAL TIME DATA DURING CERTAIN HANDOVERS

**(57) Abstract**

A method is disclosed for a mobile station for performing a handover from a first network connection to a second network connection. A mobile telecommunication system provides for non-real time telecommunication connections over a radio interface between mobile stations and the fixed parts of the mobile telecommunication system. At least one active non-real time telecommunication connection between a mobile station and the fixed parts of the mobile telecommunication system is suspended (704) before performing a handover (702') from the first network connection to the second network connection. After the new connection has been established the suspended non-real time telecommunication connection is resumed (705).



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# INTERNATIONAL SEARCH REPORT

International application No.  
**PCT/FI 99/00964**

**A. CLASSIFICATION OF SUBJECT MATTER**

**IPC7: H04Q 7/38, H04Q 7/22**  
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)

**IPC7: H04Q, H04L**

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)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	WO 9853576 A2 (TELEFONAKTIEBOLAGET LM ERICSSON), 26 November 1998 (26.11.98), abstract  --	1
A	US 5530693 A (ROD AVERBUCH ET AL), 25 June 1996 (25.06.96), abstract  --	1
P,A	MEULENHOF D.V.D., Handover in a High-Speed Wireless ATM based LAN, IEEE 1999, Eindhoven University of Technology, Faculty of Electrical Engineering, Telecommunication Technology and Electromagnetics Division, see whole document  --	1

Further documents are listed in the continuation of Box C.       See patent family annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
<b>11 May 2000</b>	<b>12 -05- 2000</b>
Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86	Authorized officer  <b>Jaana Raivio/cs</b> Telephone No. +46 8 782 25 00

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	ETSI 301 344 version 6.3.2, Digital cellular telecommunication system (Phase 2+), General Packet Radio Service (GPRS), Service description, Stage 2, (GSM 03.60 version 6.3.2. Release 1997), page 72, 12.2.2  -----  -----	1

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

02/12/99

International application No.

PCT/FI 99/00964

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9853576 A2	26/11/98	AU 7560798 A NO 304570 B NO 972279 A	11/12/98 11/01/99 23/11/98
US 5530693 A	25/06/96	NONE	