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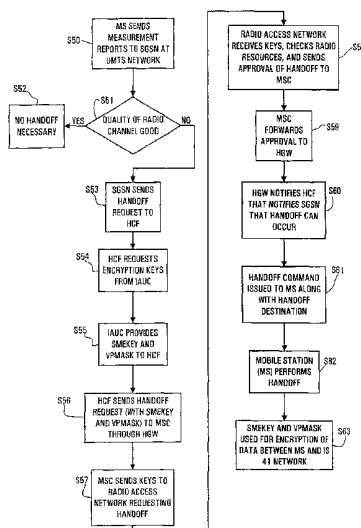
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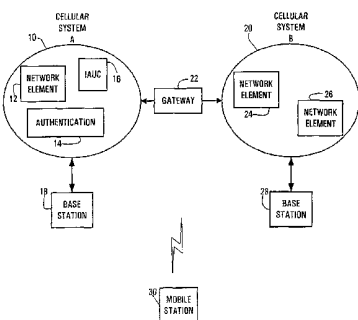
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[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR SECURITY MOBILITY BETWEEN DIFFERENT CELLULAR SYSTEMS



(57) Abstract: Method and system for providing security mobility between two cellular systems. One or more ciphering keys are generated for a second cellular system by an interoperability authentication center at a first cellular system and by a mobile device separately. Traffic between the mobile device and the first cellular system is encrypted using one or more first ciphering keys for the first cellular system. A handover of the traffic of the mobile device. After approval of handoff and before handoff, the one or more second ciphering keys are sent from the first cellular system to the second cellular system. The traffic is handed off by the mobile device from the first cellular system to the second to the second cellular system. The traffic between the mobile device and the second cellular system is encrypted using the one or more second ciphering keys. The ciphering of the traffic is maintained during handoff.



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A. CLASSIFICATION OF SUBJECT MATTER
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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 7 H04Q H04L H04M

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)

EPO-Internal, WPI Data, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	WO 00 76194 A (NOKIA NETWORKS OY ;EINOLA HEIKKI (FI); EKOLA KEIJO (FI); LINDHOLM) 14 December 2000 (2000-12-14) page 5-7; figures 1-5	1, 19, 24, 27, 30
Y	WO 00 11835 A (QUALCOMM INC) 2 March 2000 (2000-03-02) page 10, line 20 - line 31 page 8, line 36 - line 37; figure 7 page 7, line 21 - line 31 page 4, line 14 -page 5, line 34 -/--	1, 2, 5-15, 19, 21-24, 26, 27, 29, 30, 32, 33

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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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.
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Y	<p>GARG V K ET AL: "INTERWORKING AND INTEROPERABILITY ISSUES FOR NORTH AMERICAN PCS" IEEE COMMUNICATIONS MAGAZINE, IEEE SERVICE CENTER. PISCATAWAY, N.J, US, vol. 34, no. 3, 1 March 1996 (1996-03-01), pages 94-99, XP000557381 ISSN: 0163-6804 page 94 -page 99; figures 1-3</p> <p style="text-align: center;">---</p>	<p>4-8, 12-14, 21,22, 26,29,32</p>
Y	<p>CHRISTER LIND: "3rd Generation Partnership Project (3GPP); ARCHITECTURE PRINCIPLES FOR RELEASE 2000" TECHNICAL SPECIFICATION GROUP SERVICES AND SYSTEM ASPECTS;, 'Online! XP002195195 Retrieved from the Internet: <URL:http://www.3gpp.org/ftp/tsg_sa/wg3_security/2000_meetings/tsgs3_12_stockholm/docs/pdf/s3-000246.pdf > 'retrieved on 2002-04-05! paragraph '5.3.2!; figure 5.1</p> <p style="text-align: center;">-----</p>	<p>3,4, 16-18, 20,25, 28,31</p>

INTERNATIONAL SEARCH REPORT

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