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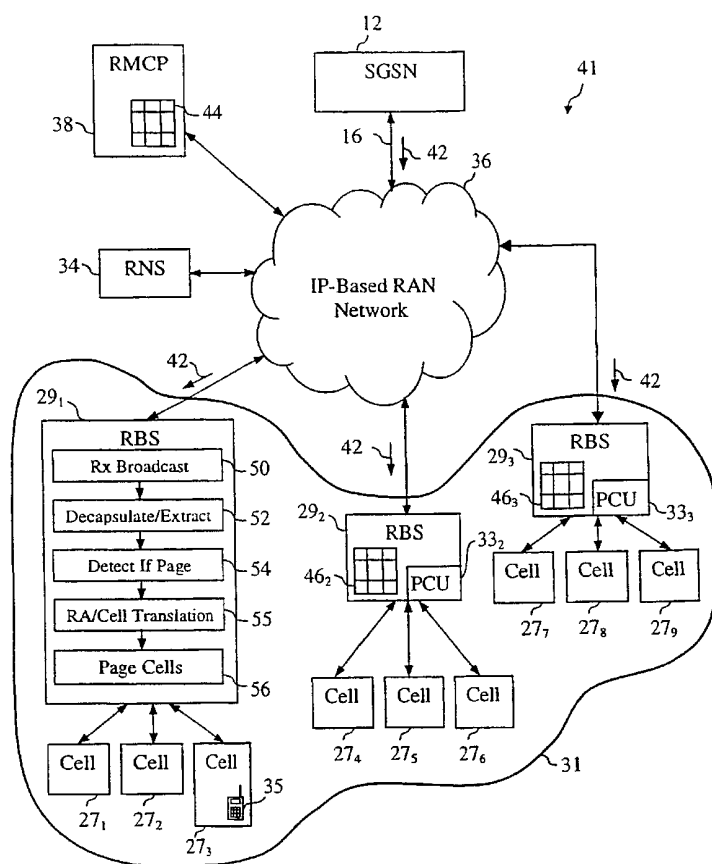
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09/552,766 19 April 2000 (19.04.2000) US</p> <p>(71) Applicant: TELEFONAKTIEBOLAGET LM ERICSSON (publ) [SE/SE]; S-126 25 Stockholm (SE).</p> <p>(72) Inventor: EVANS, Paul, J.; 6646 Av. Monkland, Montreal, Quebec H4B 1H4 (US).</p> <p>(74) Agent: MAGNUSSON, Monica; Ericsson Radio Systems AB, Patent Unit Radio Access, S-164 80 Stockholm (SE).</p> | <p>(81) Designated States (<i>national</i>): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, 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, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW.</p> <p>(84) Designated States (<i>regional</i>): ARIPO patent (GH, GM, KE, LS, MW, MZ, 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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published:
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- (54) Title:** METHOD, SYSTEM AND RADIO BASE STATION FOR PAGING A MOBILE STATION IN A THIRD GENERATION GENERAL PACKET RADIO SERVICE (GPRS) NETWORK



(57) Abstract: In a third generation (3G) General Packet Radio Service (GPRS) network, a method, system and Radio Base Station (RBS(29)) for paging a Mobile Station (MS(35)) wherein a portion of the master routing area-cell mapping table related to a particular Radio base Stations (RBS) is downloaded in that RBS. The serving GPRS Support Node (SGSN(12)) initiates a page request and sends it through an IP based network (36) directly to the RBSs, without involving the RNS (34) and the RMCP (38), via broadcast message, such as for example an IP broadcast message or an IP Multicast Message. Upon receipt of the page request, each RBS decapsulates (52) the received message, extracts the routing area (RA) information, derives (55) the cell list to be paged from the RBS resident routing area-cell mapping table and performs the actual radio page (56) broadcast over the destination cells.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/SE 01/00851

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L12/56 H04Q7/30

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 H04L H04Q

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)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	CAMPBELL A T ET AL: "An overview of cellular IP" WIRELESS COMMUNICATIONS AND NETWORKING CON, 21 - 24 September 1999, pages 606-610, XP002902055 1999 WCNC 1999 IEEE , section 3.1-3.4 the whole document	1-4,8
X	--- CAMPBELL A T ET AL: "A cellular IP testbed demonstrator" MOBILE MULTIMEDIA COMMUNICATIONS, , 15 - 17 November 1999, pages 145-148, XP002902056 (Mo 1999 IEEE International Workshop on 15-17 Nov. 1999, section 2-4, 5.1 the whole document --- -/--	1-4,8

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

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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	R RAMJEE ET AL: "Paging support for IP mobility using " INTERNET DRAFT , [Online] 25 June 1999 (1999-06-25), XP002902057 Hawaii Retrieved from the Internet: <URL:draft-ietf-mobileip-paging-hawaii-00.txt> the whole document ---	
P,A	WO 00 69188 A (ERICSSON TELEFON AB L M) 16 November 2000 (2000-11-16) abstract -----	

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0069188	A	16-11-2000	EP 1051050 A1	08-11-2000
			AU 4751000 A	21-11-2000
			WO 0069188 A1	16-11-2000
