



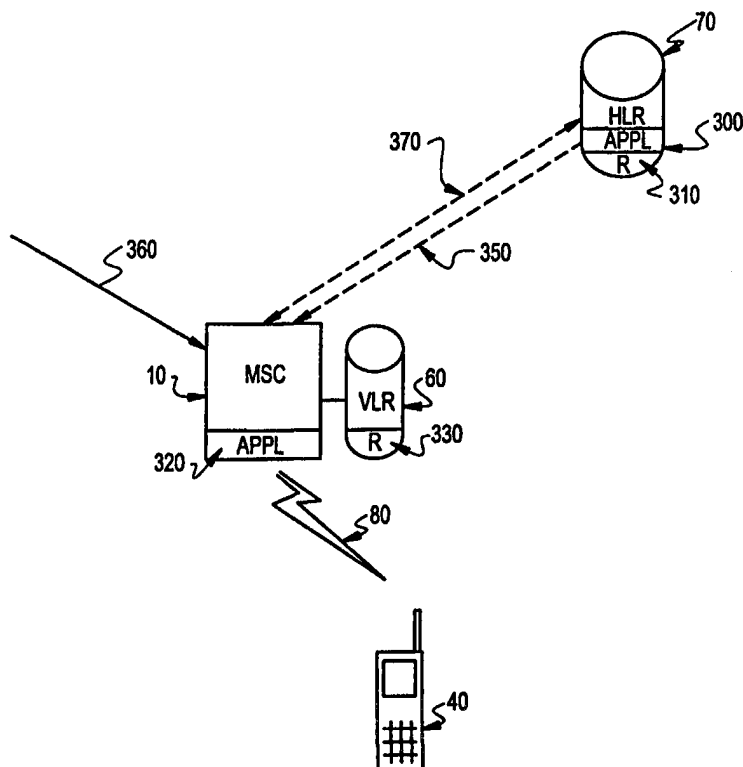
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(21) International Application Number: PCT/US98/05344 (22) International Filing Date: 18 March 1998 (18.03.98) (30) Priority Data: 08/822,243 19 March 1997 (19.03.97) US (71) Applicant: ERICSSON INC. [US/US]; 7001 Development Drive, P.O. Box 13969, Research Triangle Park, NC 27709 (US). (72) Inventor: KAZMI, Mustafa, A.; 2809 West Royal #2307, Irving, TX 75063 (US). (74) Agents: MOORE, Stanley, R. et al.; Jenkins & Gilchrist, P.C., Suite 3200, 1445 Ross Avenue, Dallas, TX 75202 (US).		(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). Published <i>With international search report.</i> (88) Date of publication of the international search report: 17 December 1998 (17.12.98)

(54) Title: MULTIPLE HOME ZONE AREAS WITHIN A MOBILE TELECOMMUNICATIONS NETWORK

(57) Abstract

A register correlating a number of different home zones with a particular subscription is associated with a home location register (HLR). A different geographic location, effective time period, and corresponding charging rate can be associated with each home zone. In response to a request to establish a call connection with a particular mobile station traveling within its coverage area, the serving mobile switching center (MSC) communicates with the associated HLR to determine which home zone is currently effective for the relevant mobile station. The serving MSC then determines whether the mobile station is currently located within the determined home zone. In response to an affirmative determination, a corresponding reduced charging rate is applied towards the resulting call connection.



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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 98/05344

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 H04Q7/22

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)

IPC 6 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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	EP 0 597 638 A (VODAFONE LTD) 18 May 1994 see abstract see column 1, line 1 - line 24 see column 2, line 17 - line 49 ---	1,8,9,15 16,17, 20,23
A P,A	SE 503 949 C (TELIA AB) 7 October 1996 & WO 97 13387 A (TELIA AB) 10 April 1997 see abstract ---	1,9,16, 21
A	US 5 568 153 A (BELIVEAU ANDRE) 22 October 1996 see column 3, line 1 - line 37 see column 3, line 60 - column 4, line 38; figure 1 -----	1,2,4,9, 10,13, 16,18, 20-22



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INTERNATIONAL SEARCH REPORT

Information on patent family members

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