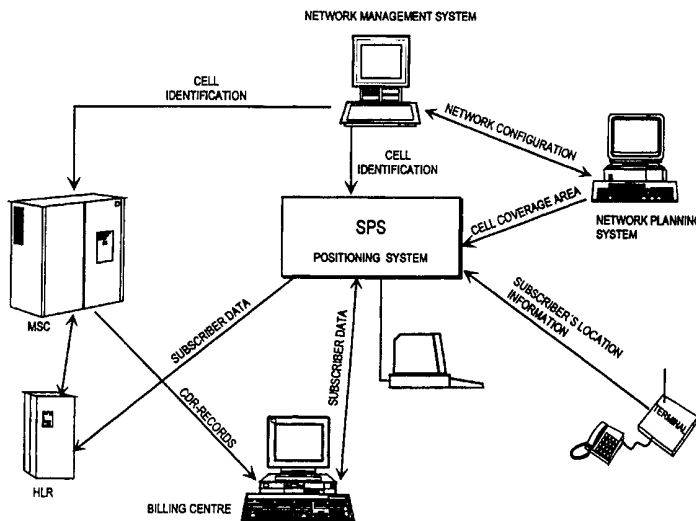




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| (21) International Application Number: PCT/FI98/00677 (22) International Filing Date: 31 August 1998 (31.08.98) (30) Priority Data: 973569 1 September 1997 (01.09.97) FI (71) Applicant (for all designated States except US): NOKIA TELECOMMUNICATIONS OY [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI). (72) Inventors; and (75) Inventors/Applicants (for US only): JANHONEN, Risto [FI/FI]; Nahkurinpiha 26, FIN-02400 Kirkkonummi (FI). KORTENIEMI, Anneli [FI/FI]; Haapalahdenkatu 11 B 11, FIN-00300 Helsinki (FI). HELOKUNNAS, Tuija [FI/FI]; Parolantie 3 I 18, FIN-02200 Espoo (FI). PELTOLA, Marjo [FI/FI]; Isoniemenkatu 24, FIN-33400 Tampere (FI). KESKINEN, Jukka [FI/FI]; Ketoväلتinkatu 3, FIN-37200 Siuro (FI). SALMINEN, Jussi [FI/FI]; Ahkionkatu 9 C 9, FIN-33850 Tampere (FI). TUSA, Kai [FI/FI]; Elinantie 11, FIN-33950 Pirkkala (FI). (74) Agent: PATENT AGENCY COMPATENT LTD.; Teollisuuskatu 33, P.O. Box 156, FIN-00511 Helsinki (FI). | | (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, HR, 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, US, 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, 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). Published <i>With international search report.</i> (88) Date of publication of the international search report: 3 June 1999 (03.06.99) |

(54) Title: A SYSTEM OF CONTROLLING SUBSCRIBER DATA IN A CELLULAR TELEPHONE SYSTEM



(57) Abstract

The invention relates to a subscriber positioning system in a cellular telephone system. On a geographic information system GIS is built a software using data retrievable from the telephone system and digital maps of the geographic information system. Cell coverage areas of the radio network are displayed graphically on the map. Subscriber information including the location of the subscriber is inputted to the subscriber positioning, which on the basis of the location determines a home cell for the subscriber, and whether more cells have to be assigned as home cells. Subscriber data can be transmitted to various databases like home location register HLR, the billing system etc. When amendments, such as insertion of new cells or changes in the cell identifications, are made in the network planning system and in the network managing system, the new data are inputted to the subscriber positioning system, which checks if there is a need to change the home cells of the subscribers.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 98/00677

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H04Q 7/36, H04Q 7/38

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)

IPC6: H04Q, G06F

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)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

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International application No.

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INTERNATIONAL SEARCH REPORT
Information on patent family members

02/02/99

International application No.

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