



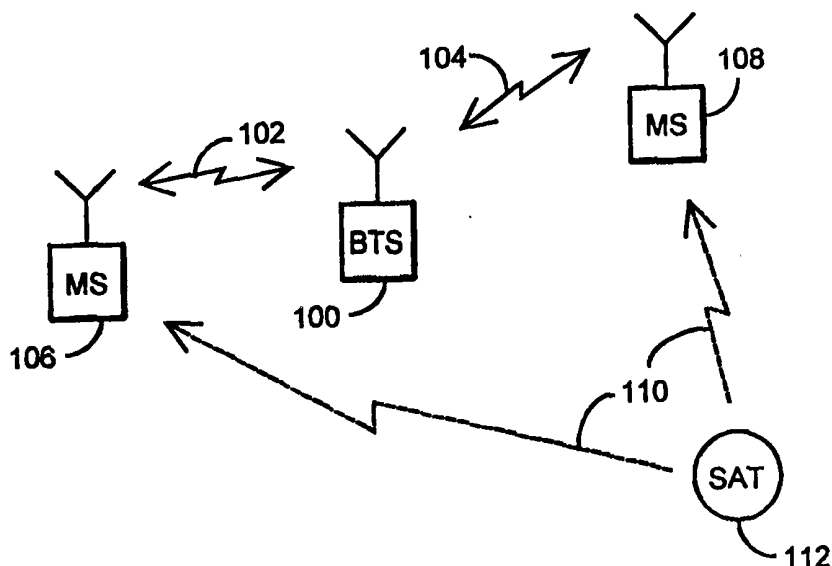
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(21) International Application Number: PCT/FI98/00703 (22) International Filing Date: 9 September 1998 (09.09.98) (30) Priority Data: 973663 11 September 1997 (11.09.97) FI (71) Applicant (for all designated States except US): NOKIA TELECOMMUNICATIONS OY [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI). (72) Inventors; and (75) Inventors/Applicants (for US only): JÄRVELÄ, Mikko [FI/FI]; Aittatie 2 C 12, FIN-90240 Oulu (FI). KESKI- TALO, Ilkka [FI/FI]; Varsankuja 3, FIN-90240 Oulu (FI). (74) Agent: PATENTTITOIMISTO TEKNOPOLOIS KOLSTER OY; c/o Kolster Oy AB, Iso Roobertinkatu 23, P.O. Box 148, FIN-00121 Helsinki (FI).			(81) Designated States: AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), 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, SK (Utility model), 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> <i>In English translation (filed in Finnish).</i> (88) Date of publication of the international search report: 20 May 1999 (20.05.99)

(54) Title: DETERMINATION OF THE GEOGRAPHICAL LOCATION OF A MOBILE TERMINAL IN A MOBILE TELEPHONE SYSTEM

(57) Abstract

The invention relates to a mobile telephone system comprising a number of coverage areas, each coverage area being served by at least one base station (100), a number of subscriber terminals (106, 108) communicating with one or more base stations, and from which terminals at least some are arranged to determine their geographical location and to inform the base station of the location. The terminals are arranged to inform the base station of their geographical location at certain intervals. To improve the call set-up quality of the terminal, the base station is arranged to store one or more location information items transmitted by each terminal, and to determine the direction of travel and the speed of the terminal on the basis of the location information transmitted by the terminal.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 98/00703

A. CLASSIFICATION OF SUBJECT MATTER

IPC6: H04Q 7/38, G01S 5/00

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, G01S

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)

EPODOC, WPI

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5432842 A (YASUAKI KINOSHITA ET AL), 11 July 1995 (11.07.95), column 1, line 49 - column 2, line 18; column 3, line 58 - column 5, line 58	1,4,6-12
Y	--	2
X	GB 2271486 A (MOTOROLA LIMITED), 13 April 1994 (13.04.94), see the whole document	1
Y	--	2,5-12

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

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Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Peter Hedman

Telephone No. +46 8 782 25 00

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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02/03/99

International application No.

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