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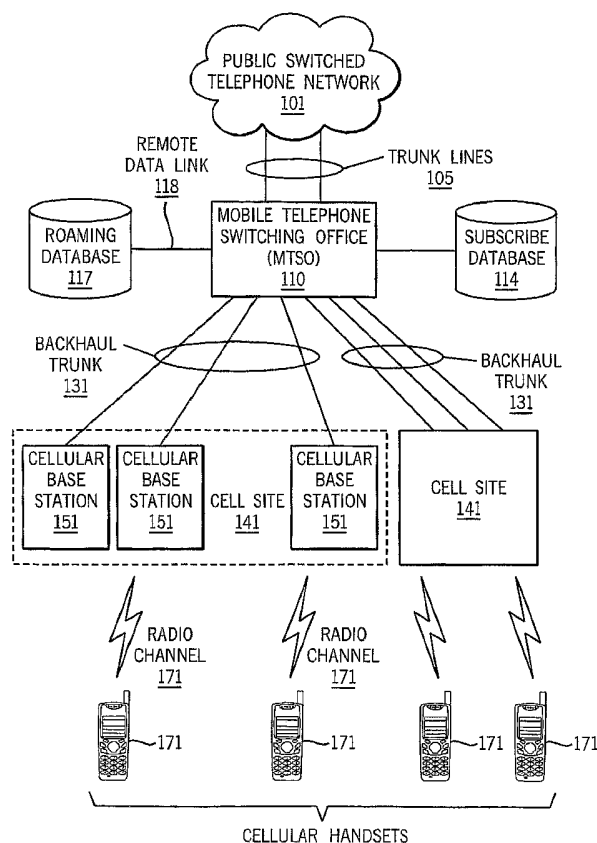
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[Continued on next page]

(54) Title: FILTERED WIRELESS COMMUNICATIONS



(57) Abstract: In accordance with the principles of the present invention, a method and apparatus for filtered wireless communications is provided. The method provides a filtered wireless zone (Fig. 4 [405]), preferably for second-generation cellular systems. Signal levels from surrounding cells are tested. (Fig. 7) The identities and frequencies of surrounding cells are received and a list of the available frequencies of the surrounding cells is established. An available frequency that is geographically distant from the handset is chosen. This available frequency has a low signal strength relative to the other available frequencies. The chosen frequency is established as a private frequency. The private frequency is transmitted at a geographical distance close to and thus at a high signal strength relative to the other available frequencies. Thus, the handset switches to the private frequency. In one embodiment, the frequencies of the cells are Global System for Mobile Communications (GSM) frequencies.



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A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H04Q 7/30, 7/36, 7/20**

USPC: 455/447, 448, 438, 422.1, 456.1

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)

U.S. : 455/447, 448, 438, 422.1, 456.1

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 practicable, 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 --- Y	US 6,944,426 B1 (ESSER et al.) 13 September 2005 (13.09.2005), column 3 line 10-67, column 4 lines 49-61, column 5 lines 43-61, column 6 lines 21-25, 30-41 & 65-67, column 7 lines 1-10, 42-49.	1-8, 10-17, 25 ----- 9, 18-24 & 26
Y	US 6,236,860 B1 (HAGTING et al.) 22 May 2001 (22.05.2001), column 3 lines 64-67, column 4 lines 1-35, column 10 lines 30-58.	9, 18-22, 24
Y	US 6,044,263 A (VALENTINE et al.) 28 March 2000 (28.03.2000), column 3 lines 53-67, column 4 lines 1-11.	23
Y	US 6,539,204 B1 (MARSH et al.) 25 March 2003 (25.03.2003), column 3 lines 36-43, column 4 lines 48-60, column 11 lines 11-22.	26



Further documents are listed in the continuation of Box C.



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