

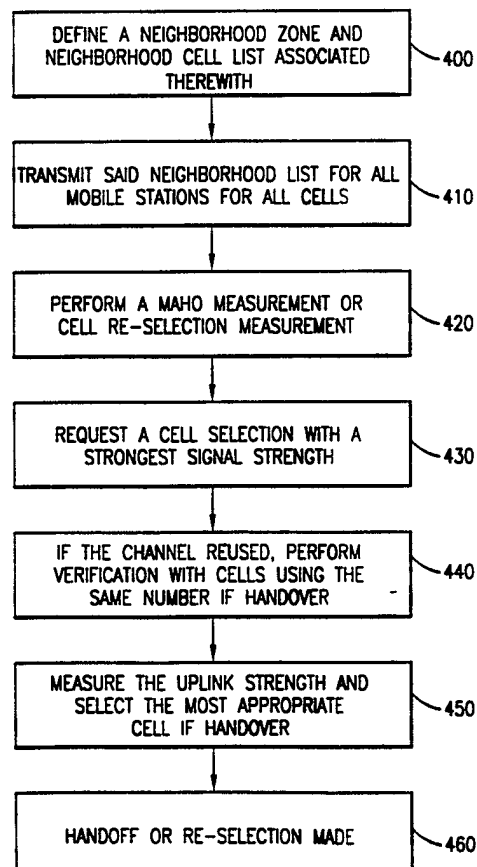


## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <b>(21) International Application Number:</b> PCT/SE98/00852<br><br><b>(22) International Filing Date:</b> 8 May 1998 (08.05.98)<br><br><b>(30) Priority Data:</b><br>08/861,270      21 May 1997 (21.05.97)      US<br><br><b>(71) Applicant:</b> TELEFONAKTIEBOLAGET LM ERICSSON [SE/SE]; S-126 25 Stockholm (SE).<br><br><b>(72) Inventors:</b> WÅRD, Torbjörn; 101 Maumee Court, Cary, NC 27513 (US). SANDELL, Anders; 554 Westminster Avenue, Dollard-Des-Ormeaux, Quebec H9G 1E7 (CA). DUFOUR, Daniel; 62, 43e Avenue Est, Blainville, Quebec J7C 3M7 (CA).<br><br><b>(74) Agent:</b> ERICSSON RADIO SYSTEMS AB; Common Patent Dept., S-164 80 Stockholm (SE). |           | <b>(81) Designated States:</b> 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, 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, ML, MR, NE, SN, TD, TG).<br><br><b>Published</b><br><i>With international search report.</i><br><br><b>(88) Date of publication of the international search report:</b><br>25 February 1999 (25.02.99) |

**(54) Title:** PROVIDING A NEIGHBORHOOD ZONE WITHIN A MOBILE TELECOMMUNICATIONS NETWORK**(57) Abstract**

A neighborhood zone covering an enclosed or surrounded environment, such as a man-made building or high-rise, is defined (400) within a mobile telecommunications network by associating a plurality of base stations with respective cell areas. A same neighborhood list indicating all measurement channels being utilized within the neighborhood zone by said plurality of base stations is then further defined (400). The defined same neighborhood list is then transmitted (410) by each of the base stations within its respective coverage area. A mobile station traveling within the neighborhood zone then scans and reports measurements (420) from the indicated measurement channels to the serving mobile telecommunications network. The mobile telecommunications network then effectuates a handover (460) in accordance with the received signal measurements. An idle mobile station further utilized the measurements to effectuate a cell re-selection.



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# INTERNATIONAL SEARCH REPORT

International application No  
PCT/SE 98/00852

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 H04Q7/38

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)

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. |
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Information on patent family members

International Publication No

PCT/SE 98/00852

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