

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
19 July 2001 (19.07.2001)

PCT

(10) International Publication Number
WO 01/52585 A1

(51) International Patent Classification⁷: **H04Q 7/38**

(21) International Application Number: PCT/FI01/00016

(22) International Filing Date: 9 January 2001 (09.01.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20000043 10 January 2000 (10.01.2000) FI

(71) Applicant (for all designated States except US): **NOKIA MOBILE PHONES LTD.** [FI/FI]; Keilalahdentie 4, FIN-02150 Espoo (FI).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **VIRTANEN, Anu** [FI/FI]; Pajalahdentie 27 B 15, FIN-00200 Helsinki (FI).

(74) Agent: **BERGGREN OY AB**; P.O. Box 16, FIN-00101 Helsinki (FI).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

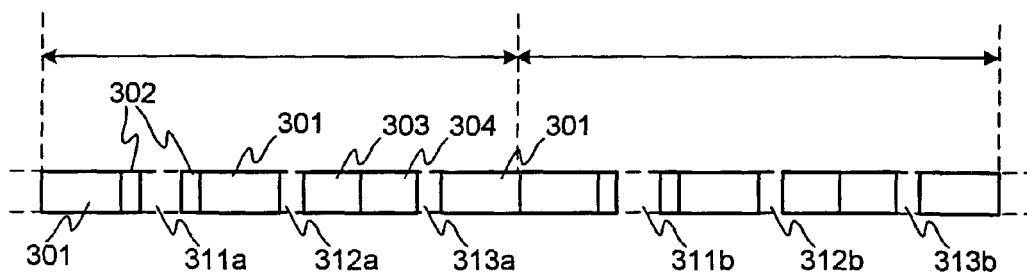
(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR PREPARING AN INTERFREQUENCY HANDOVER, A NETWORK ELEMENT AND A MOBILE STATION



(57) Abstract: A method (600) for preparing an interfrequency handover of a certain communication connection from a first frequency to a second frequency, comprising the following steps of: periodically intermitting (603) the transmission/receipt of data on the first frequency for certain transmission gaps, where the number of transmission gaps is at least one during each transmission period and a certain sequence of transmission periods (420, 520) is used, and performing (607) measurements on the second frequency during the transmission gaps on the first frequency. The method is characterized in that the step of intermitting the transmission/receipt of data comprises a substep of intermitting (604, 606) the transmission/receipt of data within at least one transmission period for a certain transmission gap (311, 411) having a first duration and for a certain second transmission gap (312, 412) having a second duration, which second duration is different from the first duration. A mobile station (700), a network element (710) and a network control element (720) are also presented.