9804361-5
IPOS copy +
IPER & Annexes

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : H04Q

A2

(11) International Publication Number: WO 97/31487

(43) International Publication Date: 28 August 1997 (28.08.97)

(21) International Application Number: PCT/FI97/00118

(22) International Filing Date: 21 February 1997 (21.02.97)

(30) Priority Data:
960857 23 February 1996 (23.02.96) FI

(71) Applicant *(for all designated States except US)*: NOKIA TELECOMMUNICATIONS OY [FI/FI]; Upseerinkatu 1, FIN-02600 Espoo (FI). change of address.

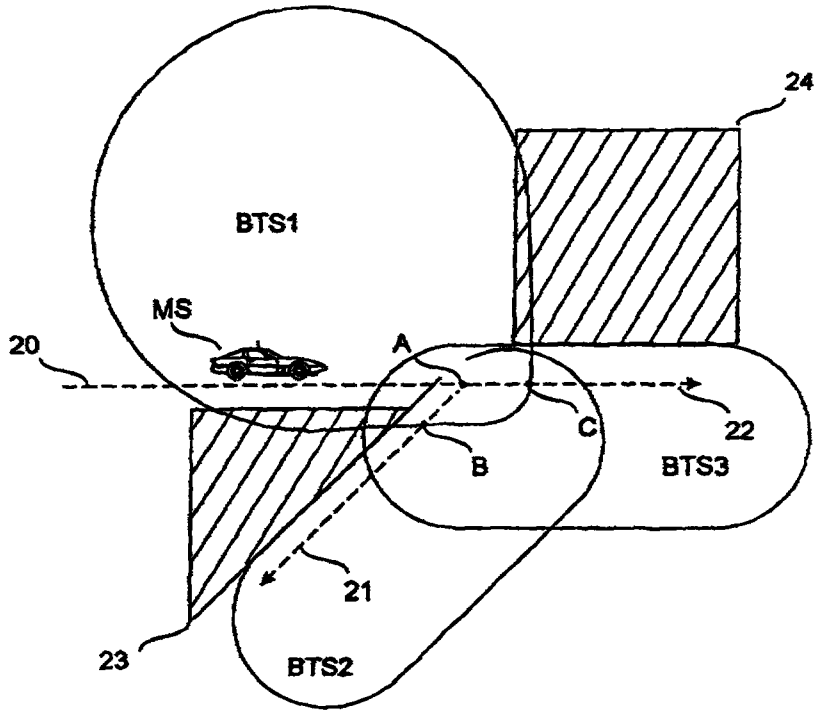
(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: SAVOLAINEN, Jari [FI/FI]; Rakuunantie 7 C 39, FIN-00330 Helsinki (FI).

(74) Agent: KOLSTER OY AB; Iso Roobertinkatu 23, P.O. Box 148, FIN-00121 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, HU, 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, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, 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).

Published
Without international search report and to be republished upon receipt of that report.

(54) Title: HANDOVER IN A MOBILE COMMUNICATION SYSTEM

(57) Abstract

The invention relates to a handover method in a mobile communication system where the serving base station (BTS1) measures the level and/or quality of the uplink signal of a mobile station (MS). The base station controller (BSC) commands neighbouring base stations (BTS2, BTS3) to measure the level and/or quality of the uplink signal of the mobile station (MS), when the serving base station (BTS1) has measured an uplink signal level and/or quality lower than a predetermined triggering value. The base station controller (BSC) performs a handover to the neighbouring base station (BTS2, BTS3) that has measured the most suitable uplink signal level and/or quality, when the serving base station (BTS1) has measured an uplink signal level and/or quality below a predetermined threshold value for handover.