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| (51) International Patent Classification <sup>6</sup> :<br><b>H04Q 7/36, 7/38</b>                                                                                                                                                                                                                                                                                                                                                                                          |  | <b>A1</b>                                                                                                                                                                                                                                                                                                                                                                                                                                  | (11) International Publication Number:<br><b>WO 96/00484</b>      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                                                                                            | (43) International Publication Date:<br>4 January 1996 (04.01.96) |
| (21) International Application Number:<br><b>PCT/SE95/00764</b>                                                                                                                                                                                                                                                                                                                                                                                                            |  | (81) Designated States: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT, UA, UG, UZ, VN, European patent (AT, BE, CH, DE, DK, ES, 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), ARIPO patent (KE, MW, SD, SZ, UG). |                                                                   |
| (22) International Filing Date:<br>21 June 1995 (21.06.95)                                                                                                                                                                                                                                                                                                                                                                                                                 |  | <b>Published</b><br><i>With international search report.</i><br><i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>                                                                                                                                                                                                                                    |                                                                   |
| (30) Priority Data:<br>08/264,303 ✓ 23 June 1994 (23.06.94) ✓ <b>US</b>                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                   |
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| (54) Title: <b>INTRA-CELL HANDOVER WITH ANTENNA ARRAYS</b>                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                   |
| (57) Abstract<br><p>An intra-cell handover method in a cellular communication system which utilizes spatial information from an antenna array is disclosed. The spatial information is measured with the antenna array. A determination is then made on whether an intra-cell handover is desirable for a mobile station based upon said measured spatial information. The mobile station is then handed over from a first channel to a second channel when desirable.</p> |  |                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                   |

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