

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
13 September 2001 (13.09.2001)

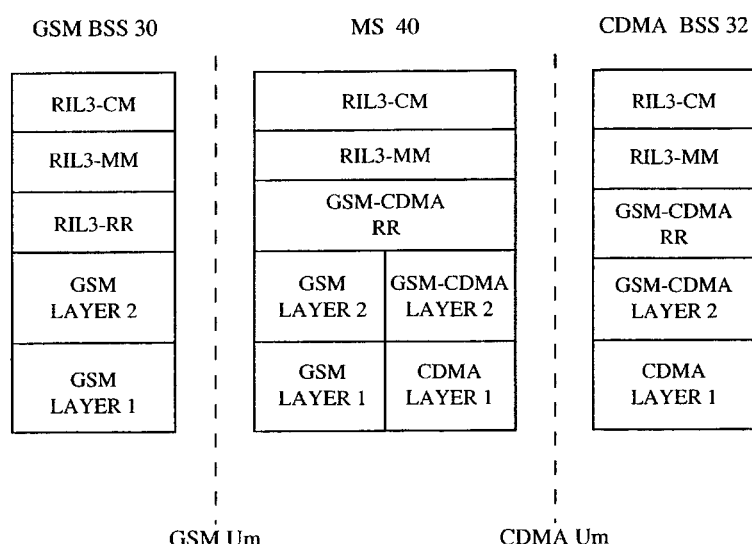
PCT

(10) International Publication Number
WO 01/67788 A3

- (51) International Patent Classification⁷: **H04Q 7/38**
- (21) International Application Number: PCT/US01/07390
- (22) International Filing Date: 7 March 2001 (07.03.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
09/521,359 8 March 2000 (08.03.2000) US
- (71) Applicant: **QUALCOMM INCORPORATED** [US/US];
5775 Morehouse Drive, San Diego, CA 92121-1714 (US).
- (72) Inventors: **GRILLI, Francesco**; 4210 Palo Verde Road,
Irvine, CA 92612 (US). **JAIN, Avinash**; 11143 Caminito
Alvarez, San Diego, CA 92126 (US). **GARDNER,
William**; 4232 Kerwood Court, San Diego, CA 92130
(US).
- (74) Agents: **WADSWORTH, Philip, R.** et al.; Qualcomm In-
corporated, 5775 Morehouse Drive, San Diego, CA 92121-
1714 (US).
- (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, 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
- (88) Date of publication of the international search report:
14 March 2002

[Continued on next page]

(54) Title: INTERSYSTEM BASE STATION HANDOVER



(57) **Abstract:** A mobile wireless telecommunications system includes base stations of a first type operating according to a first air interface, and base stations of a second type operating according to a second air interface. Methods and apparatus are provided for handing over a mobile station in the system from a first base station, which is of the first type, to a second base station, which is of the second type. A communications link is established over the first air interface between the mobile station and the first base station. Data are received from the mobile station responsive to a signal received by the mobile station over the second air interface from the second base station, substantially without breaking the communications link with the first base station. The mobile station is handed over from the first to the second base station responsive to the data received therefrom. In particular, a method of conducting intersystem handover from a multicarrier system to a direct spread system is provided. Timing synchronization is also advantageously made available through the mobile station.



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.