

PCT

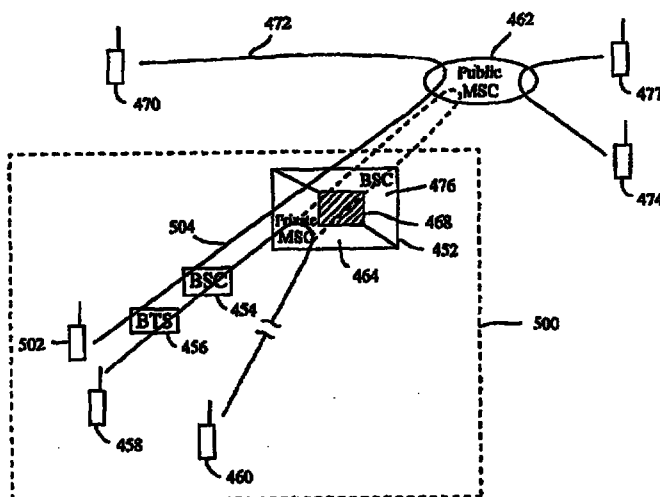
WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H04Q 7/26, 7/30, 7/38	A1	(11) International Publication Number: WO 96/35301 (43) International Publication Date: 7 November 1996 (07.11.96)
(21) International Application Number: PCT/US96/06291 (22) International Filing Date: 3 May 1996 (03.05.96) (30) Priority Data: 08/435,709 4 May 1995 (04.05.95) US (71) Applicant (for all designated States except US): INTERWAVE COMMUNICATIONS INTERNATIONAL, LTD. [-/-]; c/o Codan Services, Ltd., Clarendon House, 1 Church Street, Hamilton HM DX (BM). (71)(72) Applicant and Inventor: LU, Priscilla, Marilyn [US/US]; 718 Best Court, San Carlos, CA 94070 (US). (72) Inventor; and (75) Inventor/Applicant (for US only): WHITE, Timothy, R. [US/US]; 1040 Emerson Street, Palo Alto, CA 94301 (US). (74) Agent: NGUYEN, Joseph, A.; Hickman, Beyer & Weaver, P.O. Box 61059, Palo Alto, CA 94304 (US).		(81) Designated States: AL, AM, AT, AU, AZ, 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, 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, AR, IP, 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 <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>

(54) Title: **CELLULAR PRIVATE BRANCH EXCHANGES**



(57) Abstract

A cellular private branch exchange for facilitating cellular communication for a first plurality of mobile station units, which includes a first base station subsystem for communicating with a first and a second mobile station unit of the first plurality of mobile station units on respectively a first and a second cellular bearer data channel. The cellular private branch exchange further includes a cellular private branch exchange unit coupled to the first base station subsystem. In turn, the cellular private branch exchange unit includes a private mobile-services switching center for providing mobility management for the first plurality of mobile station units, the private mobile-services switching center representing a first cross-connect node capable or cross-connecting the first bearer data channel with the second bearer data channel for calls between the first and the second mobile station units. Further the cellular private branch exchange unit includes a private registry coupled to the private mobile-services switching center, the private registry storing subscriber information pertaining to the first plurality of mobile station units.