

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
12 April 2001 (12.04.2001)

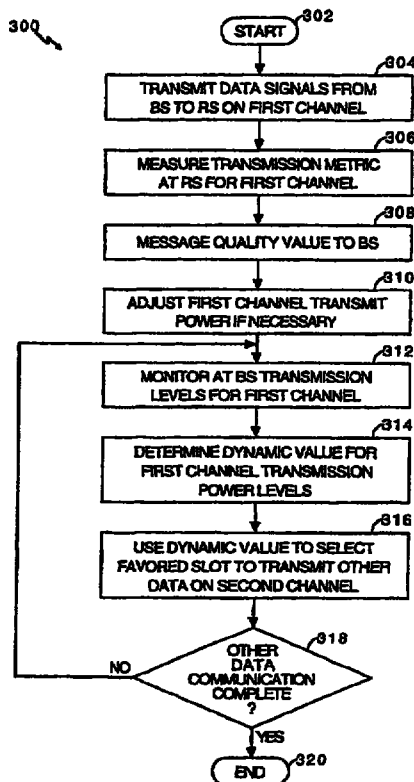
PCT

(10) International Publication Number
WO 01/26246 A1

- (51) International Patent Classification⁷: **H04B 7/005** (74) Agents: WADSWORTH, Philip, R. et al.; Qualcomm Incorporated, 5775 Morehouse Drive, San Diego, CA 92121-1714 (US).
- (21) International Application Number: PCT/US00/27533
- (22) International Filing Date: 7 October 2000 (07.10.2000) (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.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 09/414,759 7 October 1999 (07.10.1999) US (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), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
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- Published:
— With international search report.

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR PREDICTING FAVORED SUPPLEMENTAL CHANNEL TRANSMISSION SLOTS USING TRANSMISSION POWER MEASUREMENTS OF A FUNDAMENTAL CHANNEL



(57) Abstract: A method and apparatus for selecting a favored transmission slot for communicating non-voice data in conjunction with a voice-data communication. The slot, reflecting a favored power level and transmission rate for transmitting the non-voice data on a supplemental channel, is selected based upon the transmission power levels for voice-data transmitted by a base station to a remote station on a fundamental channel. The favored transmission slot is selected without the remote station messaging information to the base station concerning frequency channel or interference information for the supplemental channel.

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