

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
27 June 2002 (27.06.2002)

PCT

(10) International Publication Number
WO 02/051048 A3

(51) International Patent Classification⁷: **H04B 7/26**

(21) International Application Number: PCT/US01/48915

(22) International Filing Date:
13 December 2001 (13.12.2001)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/256,621 19 December 2000 (19.12.2000) US

(71) Applicant: **INTERDIGITAL TECHNOLOGY CORPORATION** [US/US]; 300 Delaware Avenue, Suite 527, Wilmington, DE 19801 (US).

(72) Inventors: **DICK, Stephen, G.**; 61 Bobann Drive, Nesconset, NY 11767 (US). **IACONO, Ana, Lucia**;

16 Clinch Avenue, Garden City, NY 11530 (US).
STERN-BERKOWITZ, Janet; 41-20 Glenwood Street, Little Neck, NY 11363 (US).

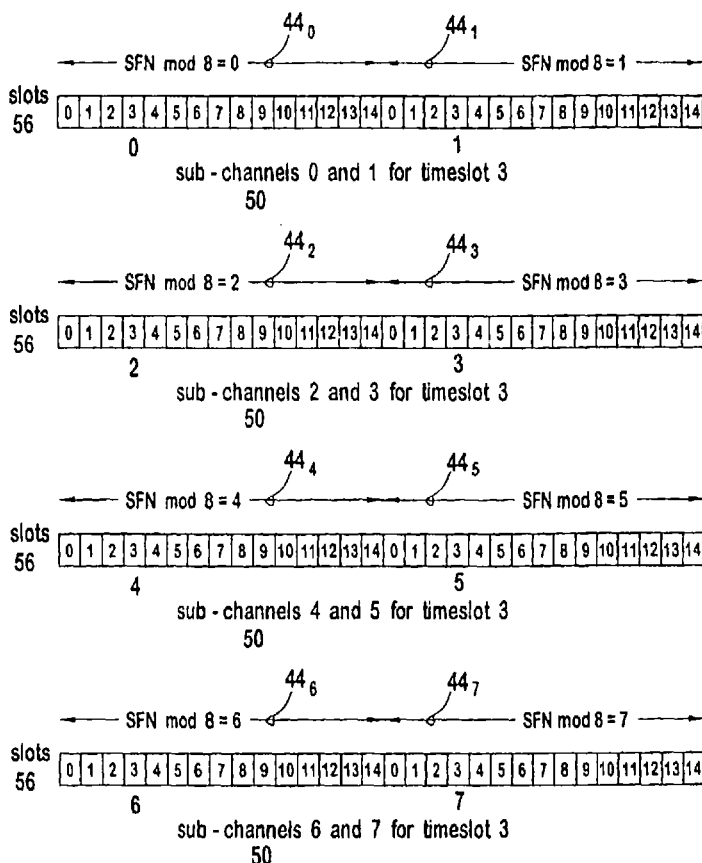
(74) Agents: **VOLPE, Anthony, S.** et al.; Volpe and Koenig, P.C., Suite 400, One Penn Center, 1617 John F. Kennedy Boulevard, Philadelphia, PA 19103 (US).

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, 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, OM, PH, 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, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR,

[Continued on next page]

(54) Title: SUB-CHANNELS FOR THE RANDOM ACCESS CHANNEL IN TIME DIVISION DUPLEX SYSTEM



(57) Abstract: Sub-channels are defined for a physical random access channel of a wireless time division duplex communication system using code division multiple access. The sub-channels carry information between system users and a system network. A series of radio frames have a sequence of timeslots. For a particular timeslot number of the sequence, each sub-channel of the particular timeslot number is uniquely defined by one radio frame of the series.

WO 02/051048 A3



162162



G00002

GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent
(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
NE, SN, TD, TG).

(88) Date of publication of the international search report:

17 April 2003

Published:

-- with international search report

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.