

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 November 2007 (08.11.2007)

PCT

(10) International Publication Number
WO 2007/127312 A3

(51) International Patent Classification:

H04L 12/24 (2006.01)

(21) International Application Number:

PCT/US2007/010149

(22) International Filing Date: 24 April 2007 (24.04.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/794,604 25 April 2006 (25.04.2006) US

(71) Applicant (for all designated States except US): **INTER-DIGITAL TECHNOLOGY CORPORATION** [US/US]; 3411 Silverside Road, Concord Plaza, Suite 105, Hagley Building, Wilmington, Delaware 19810 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RUDOLF, Marian** [DE/CA]; 1958 Rue Workman, Montreal, Québec H3J 2P3 (CA). **ZUNIGA, Juan, Carlos** [MX/CA]; 955 Rue Gohier Ville St. Laurent, Montreal, Québec H4L 3J4 (CA). **LEVY, Joseph, S.** [US/US]; 26 East Webster Street, Merrick, New York 11566 (US). **GRANDHI, Sudheer A.** [US/US]; 1605 North James Street, Mamaroneck, New York 10543 (US).

(74) Agent: **BALLARINI, Robert, J.**; Volpe And Koenig, P.c., United Plaza, Suite 1600, 30 S. 17th Street, Philadelphia, Pennsylvania 19103 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

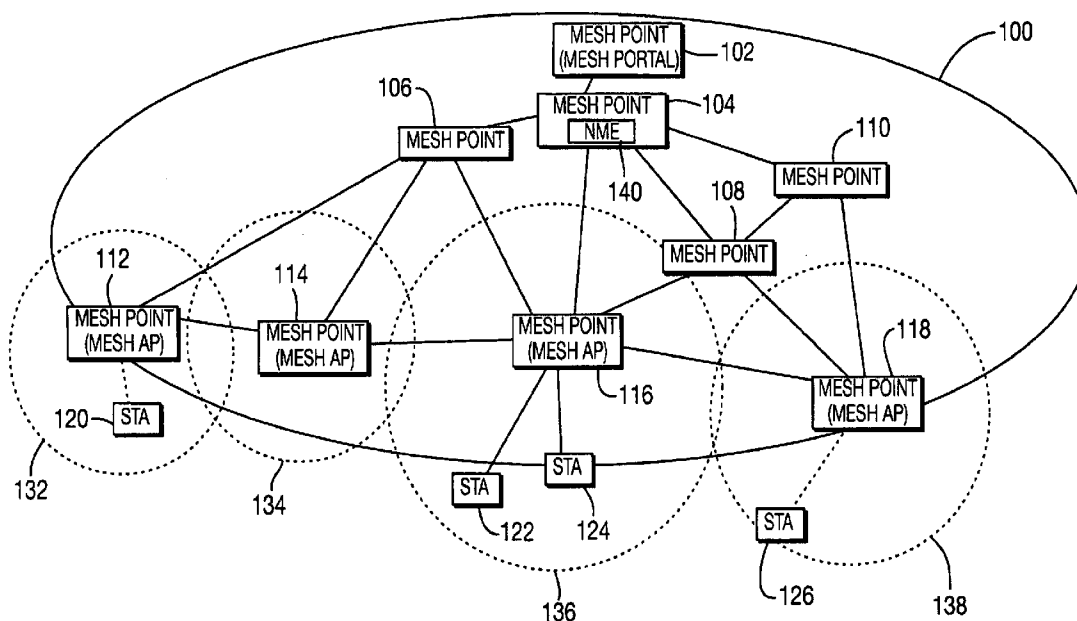
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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

27 December 2007

[Continued on next page]

(54) Title: HIGH-THROUGHPUT CHANNEL OPERATION IN A MESH WIRELESS LOCAL AREA NETWORK



(57) Abstract: High throughput channel operation in a mesh wireless local area network (WLAN) is disclosed. A mesh network comprises a plurality of mesh points and a network management entity (NME). The NME is configured to retrieve capability and configuration data from the mesh points. The NME configures at least one mesh point with respect to IEEE 802.11n channelization and legacy protection mode based on the capability and configuration data.



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.