

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 November 2005 (10.11.2005)

PCT

(10) International Publication Number
WO 2005/107165 A1

(51) International Patent Classification⁷: **H04L 12/28**

(74) Agent: **HARROUN, John, A.**; c/o Morgan & Finnegan, LLP, Three World Financial Center, New York, NY 10281 (US).

(21) International Application Number:
PCT/IB2005/001165

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, 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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 29 April 2005 (29.04.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/838,217 5 May 2004 (05.05.2004) US
10/847,876 19 May 2004 (19.05.2004) US

(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, MC, 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).

(71) Applicant (for all designated States except US): **NOKIA CORPORATION** [FI/FI]; Keilalahdentie 4, FIN-02150 ESPOO (FI).

(71) Applicant (for LC only): **NOKIA, INC.** [US/US]; 6000 Connection Drive, Irving, TX 75039 (US).

(72) Inventors; and

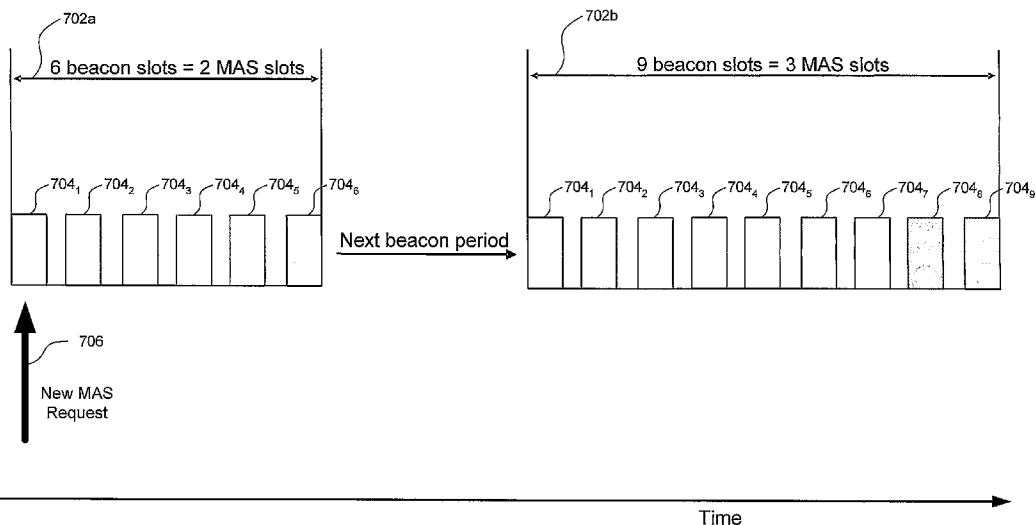
(75) Inventors/Applicants (for US only): **SALOKANNEL, Juha** [FI/FI]; Siikinkatu 13, FIN-33710 Tampere (FI). **REUNAMÄKI, Jukka** [FI/FI]; Elementinpolku 15 C 32, FIN-33720 Tampere (FI).

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

[Continued on next page]

(54) Title: ADAPTIVE BEACON PERIOD IN A DISTRIBUTED NETWORK



(57) Abstract: Multiple nodes communicate using repeating patterns of superframes, where each of the superframes includes a beacon period. A beacon slot in a first Media Access Slot (MAS) is reserved by the plurality of nodes. This reserved slot occurs in the beginning of the beacon period and is used for communicating information relating to the superframe configuration. This information may involve adjustments to the number of MASs reserved for beaconing.

WO 2005/107165 A1



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.