

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
14 February 2008 (14.02.2008)

PCT

(10) International Publication Number  
**WO 2008/019140 A3**

(51) International Patent Classification:  
*H04L 12/28* (2006.01) *H04L 7/00* (2006.01)

(21) International Application Number:  
PCT/US2007/017520

(22) International Filing Date: 6 August 2007 (06.08.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/835,618 4 August 2006 (04.08.2006) US  
11/529,880 29 September 2006 (29.09.2006) US

(71) Applicant (for all designated States except US): **MICROSOFT CORPORATION** [US/US]; One Microsoft Way, Redmond, WA 98052 (US).

(72) Inventors: **ABHISHEK, Abhishek**; c/o Microsoft Corporation International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (US). **SHEN, Hui**; c/o Microsoft Corporation International Patents, One Microsoft Way, Redmond, Washington 98052-6399 (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, DO, 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, ME, 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.

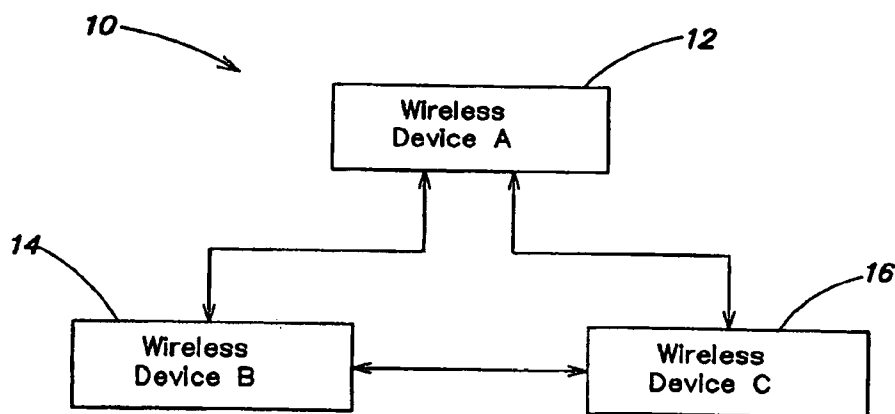
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, 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:  
20 March 2008

(54) Title: SYNCHRONIZATION BETWEEN WIRELESS DEVICES WHILE SAVING POWER



(57) Abstract: A wireless device in an ad hoc network detects other wireless devices within radio range and establishes synchronization with the detected wireless devices. The wireless device operates in a power save mode and wakes up, or turns on, periodically or on demand to implement discoverability. A received probe request packet or beacon packet contains information which allows the receiving wireless device to discover the transmitting wireless device. The wireless device may operate in a discoverable mode or in an active discovery mode.

WO 2008/019140 A3