

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
27 March 2008 (27.03.2008)

PCT

(10) International Publication Number  
**WO 2008/035287 A3**

(51) International Patent Classification:

*H04Q* 7/36 (2006.01) *H01Q* 3/00 (2006.01)  
*H04B* 17/00 (2006.01) *H04B* 7/005 (2006.01)

(21) International Application Number:

PCT/IB2007/053777

(22) International Filing Date:

18 September 2007 (18.09.2007)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/845,602 18 September 2006 (18.09.2006) US

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(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,

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR REDUCING THE GUARD BAND BETWEEN WIRELESS COMMUNICATION SYSTEMS OPERATING IN THE SAME GEOGRAPHICAL AREA

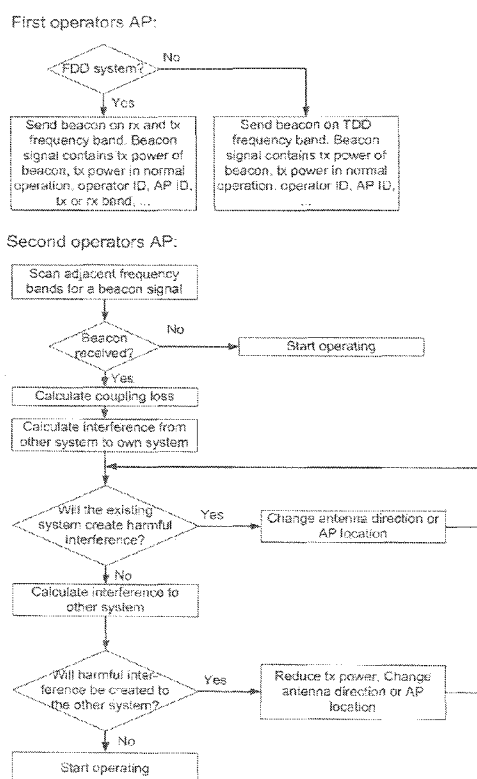


FIG. 7

(57) Abstract: Operators of wireless communication systems operating in the same geographic area are able to build networks on neighboring/adjacent bands, even if one of the systems is using a TDD mode and the other systems is using a FDD mode without using excessive large guard bands. A beaconing mechanism with signaling is used to impose an exclusion zone and power restriction, antenna direction, and other operational parameters. A newcomer operator is able to get an accurate knowledge of the interference to and from the sites of the AP of the existing operator so that the newcomer can deploy his APs without causing interference to the existing APs.



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:**

14 August 2008

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2007/053777

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: see extra sheet

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC: H01Q, H04B, H04L, H04Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ, INSPEC, INTERNET

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 20060094370 A1 (NGUYEN, H), 4 May 2006 (04.05.2006), figure 17, claims 1-8, abstract, paragraphs [0011]-[0015],[0045]-[0050] --	1-29
Y	WO 2005036909 A1 (ROKE MANOR RESEARCH LIMITED), 21 April 2005 (21.04.2005), page 1 - page 8; page 12, line 20 - page 14, line 23, figure 1, claims 1,13,15,24, abstract, Table 1 --	1-29
A	EP 1204283 A1 (TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)), 8 May 2002 (08.05.2002), figures 7-8, claims 1,5,27-30, abstract, paragraphs [0003]-[0028] --	1-29

☒ Further documents are listed in the continuation of Box C.

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Date of the actual completion of the international search

4 June 2008

Date of mailing of the international search report

10-06-2008

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Swedish Patent Office

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/IB2007/053777

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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A	EP 1435744 A2 (NTT DOCOMO, INC), 7 July 2004 (07.07.2004), figures 6-7, abstract, paragraphs [0011]-[0025],[0033]-[0054]  --	1-29
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**International patent classification (IPC)****H04Q 7/36** (2006.01)**H04B 17/00** (2006.01)**H01Q 3/00** (2006.01)**H04B 7/005** (2006.01)**Download your patent documents at [www.prv.se](http://www.prv.se)**

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Cited literature, if any, will be enclosed in paper form.

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

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