

(19) World Intellectual Property Organization  
International Bureau(43) International Publication Date  
31 July 2008 (31.07.2008)

PCT

(10) International Publication Number  
**WO 2008/092069 A3**

## (51) International Patent Classification:

*H04Q 7/30 (2006 01)*

## (21) International Application Number:

**PCT/US2008/052026**

## (22) International Filing Date: 25 January 2008 (25.01.2008)

## (25) Filing Language: English

## (26) Publication Language: English

## (30) Priority Data:

11/627,255 25 January 2007 (25.01.2007) US

(71) Applicant (for all designated States except US): **ADC TELECOMMUNICATIONS, INC.** [US/US], 13625 Technology Drive, Eden Prairie, MN 55344-2252 (US)

## (72) Inventors; and

(75) Inventors/Applicants (for US only): **KOZIY, Robert, J.** [CA/US], 13516 Parkwood Lane, Burnsville, MN 55337 (US) **ROBERTS, Harold, A.** [US/US], 7017 Beacon Circle, Eden Prairie, MN 55346 (US) **SCHIEFFERT, Todd** [US/US], 5044 Juamta Avenue South, Edina, MN 55424 (US)(74) Agent: **LUNDBERG, Scott, V.**, Fogg & Powers LLC, P O Box 581339, Minneapolis, MN 55458-1339 (US)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, 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, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

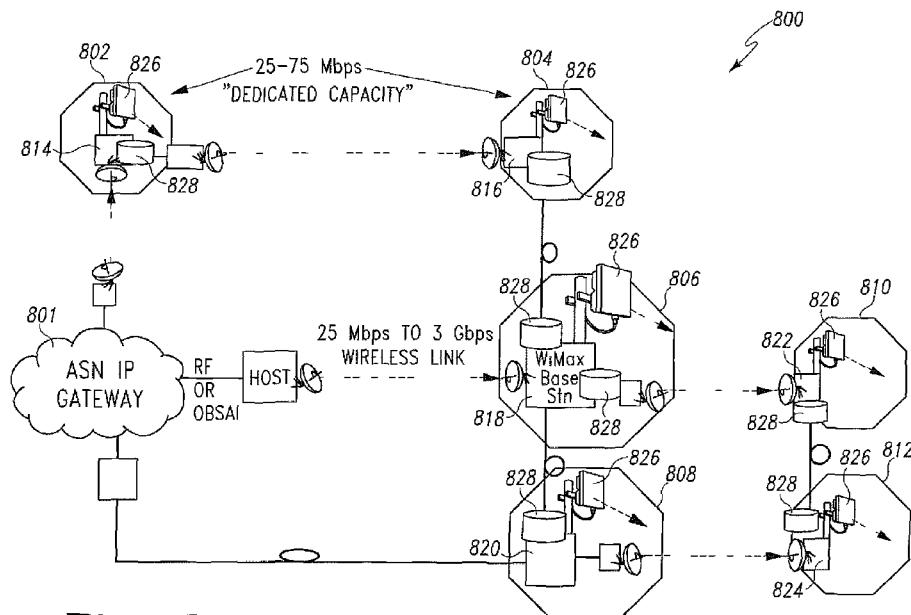
## Published:

- 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:

25 September 2008

## (54) Title: A DISTRIBUTED REMOTE BASE STATION SYSTEM

**Fig. 8****WO 2008/092069 A3**(57) **Abstract:** A distributed base station system for high speed data transmission is disclosed. The system includes a plurality of remote antennas, each antenna being coupled to a router. The plurality of remote antennas is coupled to each other and is arranged into a network.

# INTERNATIONAL SEARCH REPORT

International application No  
PCT/US2008/052026

**A. CLASSIFICATION OF SUBJECT MATTER**  
INV. H04Q7/30

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)  
H04Q

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

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

**EPO-Internal , WPI Data, INSPEC**

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category'	Citation of document, with indication, where appropriate of the relevant passages	Relevant to claim No
X	GB 2 386 037 A (NEXTG NETWORKS [US]) 3 September 2003 (2003-09-03)	1, 3-5, 7-17, 19, 20, 22-25, 27
Y	page 1, line 21 - page 2, line 9  page 3, line 14 - page 8, line 18 page 9, line 4 - line 28 page 10, line 28 - page 13, line 15 page 14, line 20 - line 23 page 17, line 2 - line 4 page 18, line 25 - page 19, line 2 claims 1-24; figures 5, 15, 21 ----- -/-	2, 6, 18, 21, 26

Further documents are listed in the continuation of Box C

See patent family annex

\* Special categories of cited documents

- <sup>1</sup>A" document defining the general state of the art which is not considered to be of particular relevance
- <sup>E</sup>' earlier document but published on or after the international filing date
- <sup>1</sup>L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- O" document referring to an oral disclosure, use, exhibition or other means
- <sup>1</sup>P" document published prior to the international filing date but later than the priority date claimed

<sup>T</sup> later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

<sup>X</sup>\* document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

<sup>Y</sup>" document of particular relevance the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents such combination being obvious to a person skilled in the art

\*& document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

18 July 2008

24/07/2008

Name and mailing address of the ISA/  
European Patent Office, P B 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel (+31-70) 340-2040, Tx 31651 epo nl,  
Fax (+31-70) 340-3016

Authorized officer

Donni ni , Carl o Luca

## INTERNATIONAL SEARCH REPORT

International application No PCT/US2008/052026
---

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

Category'	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	WO 99/09769 A (INTERWAVE COMMUNICATIONS INC [US]; OGAZ RONALD S [US]; STARK GERALD E ) 25 February 1999 (1999-02-25) page 13, line 5 - line 15 figure 4 -----	2
A	US 2004/196834 A1 (OFEK YORAM [US] ET AL) 7 October 2004 (2004-10-07) page 3, paragraph 31 page 4, paragraph 53 page 5, paragraph 77 - paragraph 78 page 14, paragraph 263 - page 15, paragraph 266 figures 2,24 -----	1, 3-27 6,18,21, 26 1-5,7,8
A	US 2004/166898 A1 (TAJIMA YOSHIHARU [JP]) 26 August 2004 (2004-08-26) page 7, paragraph 130 - paragraph 131 figure 3 -----	1-27

**INTERNATIONAL SEARCH REPORT****Information on patent family members****International application No****PCT/US2008/052026**

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
GB 2386037	A	03-09-2003	GB	2385751 A		27-08-2003
WO 9909769	A	25-02-1999	AU	752200 B2		12-09-2002
			AU	8909298 A		08-03-1999
			CA	2298638 A1		25-02-1999
			CN	1276133 A		06-12-2000
			EP	1005766 A1		07-06-2000
			US	6101400 A		08-08-2000
US 2004196834	A1	07-10-2004		NONE		
US 2004166898	A1	26-08-2004	JP	2004260262 A		16-09-2004