

(19) World Intellectual Property Organization
International Bureau



PCT



(43) International Publication Date
31 July 2008 (31.07.2008)

(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

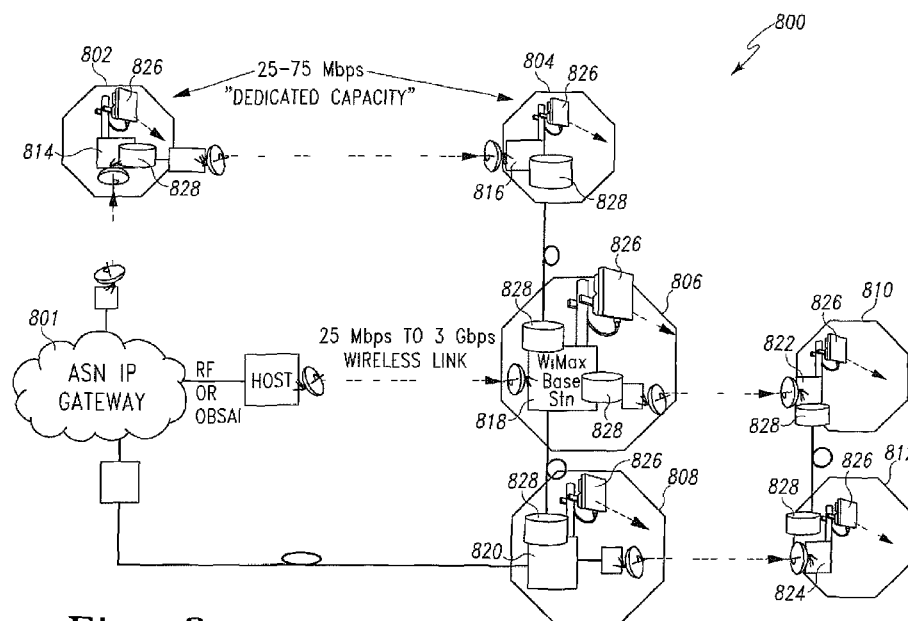


Fig. 8

(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.

WO 2008/092069 A3

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. REIDS 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

¹A" document defining the general state of the art which is not considered to be of particular relevance

¹E" earlier document but published on or after the international filing date

¹L" 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

¹P" document published prior to the international filing date but later than the priority date claimed

¹T" 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

¹X" 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

¹Y" 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

¹&" document member of the same patent family

Date of the actual completion of the international search

18 July 2008

Date of mailing of the international search report

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 31 651 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)	2
A	page 13, line 5 - line 15 figure 4 -----	1,3-27
Y	US 2004/196834 A1 (OFEK YORAM [US] ET AL) 7 October 2004 (2004-10-07)	6,18,21,26
A	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 -----	1-5,7,8
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