



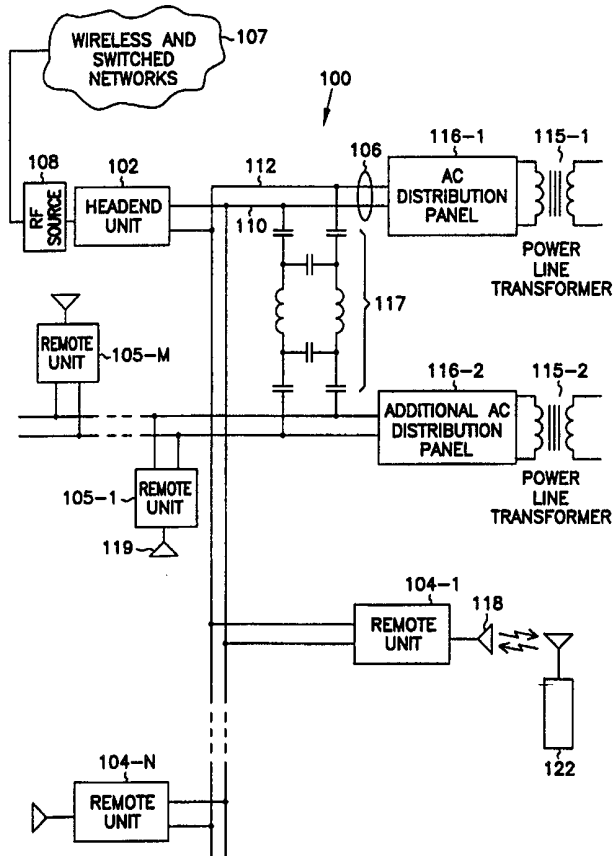
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<p>(21) International Application Number: PCT/US98/13248 (22) International Filing Date: 26 June 1998 (26.06.98) (30) Priority Data: 08/884,533 27 June 1997 (27.06.97) US (71) Applicant: ADC TELECOMMUNICATIONS, INC. [US/US]; 12501 Whitewater Drive, Minnetonka, MN 55343 (US). (72) Inventors: FISCHER, Larry, G.; R.R. 4, Box 145, Waseca, MN 56093 (US). RUSSELL, David, S.; 2117 Dudley Avenue, St. Paul, MN 55108 (US). (74) Agent: VIKSNINS, Ann, S.; Schwegman, Lundberg, Woessner & Kluth, P.O. Box 2938, Minneapolis, MN 55402 (US).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p> <p>(88) Date of publication of the international search report: 15 April 1999 (15.04.99)</p>

(54) Title: SYSTEM AND METHOD FOR DISTRIBUTING RF SIGNALS

(57) Abstract

A system for distributing RF signals to users over power lines in a structure. The system includes a head end unit that receives RF signals in a first frequency range to be distributed to users in the structure. The head end unit is coupled to the power lines of the structure. RF signals are transmitted over the power lines in a second frequency range. The head end unit includes a frequency converter that translates RF signals between the first frequency range and the second frequency range. The system also includes a number of remote units. The remote units are coupled to the power lines and disposed throughout the structure to provide RF coverage within the structure. The remote units include frequency converters that convert signals between the first and second frequency ranges. Further, an antenna is coupled to each remote unit to transmit signals to and receive signals from the users in the first frequency range.



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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 98/13248

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 H04B3/54

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 6 H04B

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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2 313 273 A (NORTHERN TELECOM LTD) 19 November 1997	1-3,6, 8-13, 16-18, 21-24
Y	see page 2, line 27 - page 3, line 7; figure 1 see page 8, line 30 - page 9, line 13 see page 13, line 32 - page 14, line 14; figure 3 see page 14, line 33 - page 15, line 7; figure 4 see page 15, line 24 - page 16, line 14 --- -/--	15,20

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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INTERNATIONAL SEARCH REPORT

International Application No

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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Y	see page 19, line 4 - line 21; figure 1 see page 23, line 23 - page 24, line 9 see page 32, line 19 - page 33, line 3; figure 6	
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