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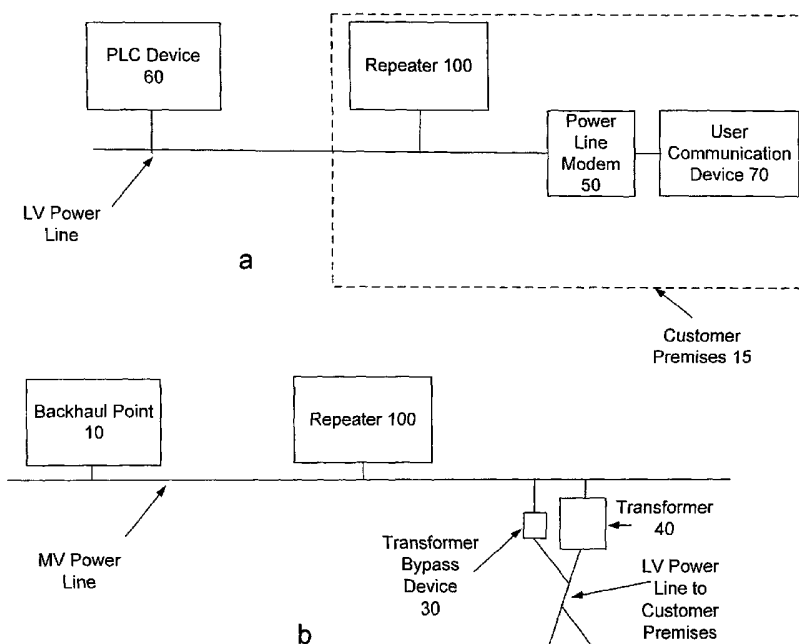
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(54) Title: A POWER LINE COMMUNICATION DEVICE AND METHOD OF USING THE SAME



(57) Abstract: The repeater of the present invention communicates data signals over power lines. The repeater of one embodiment includes at least one modem that receives a data packet and attempts to decrypt the data packet with a first and/or second encryption key. If the packet is successfully decrypted using the first encryption key, the packet is encrypted using the second encryption and transmitted over the power line. If the packet is successfully decrypted using the second encryption key, the packet is encrypted using the first encryption and transmitted over the power line.

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*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/14332

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC(7) : H04L9/00 US CL : 380/260,266 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) U.S. : 380/260,266 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 practicable, search terms used)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,522,650 (YONGE, III et al.) February 18, 2003 (18.02.2003), column 4 line 35-48, column 42 line 38-42, column 16 line 28-39, column 33 line 35-38.  column 4 line 35-48, column 42 line 38-42, column 16 line 28-39, column 33 line 35-38	1-3, 9-12, 15-19, 22-24, 27-35, 38-40, 42-44 and 47-50 ----- 4-8, 13-14, 20-21, 25-26, 36-37, 41 and 45-46
Y	US 2002/0118101 A1 (KLINE) August 29, 2002 (29.08.2002), paragraph [0006], [0007], [0040], [0071], [0067], [0068].	4-8, 13-14, 20-21, 25-26, 36-37, 41 and 45-46
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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