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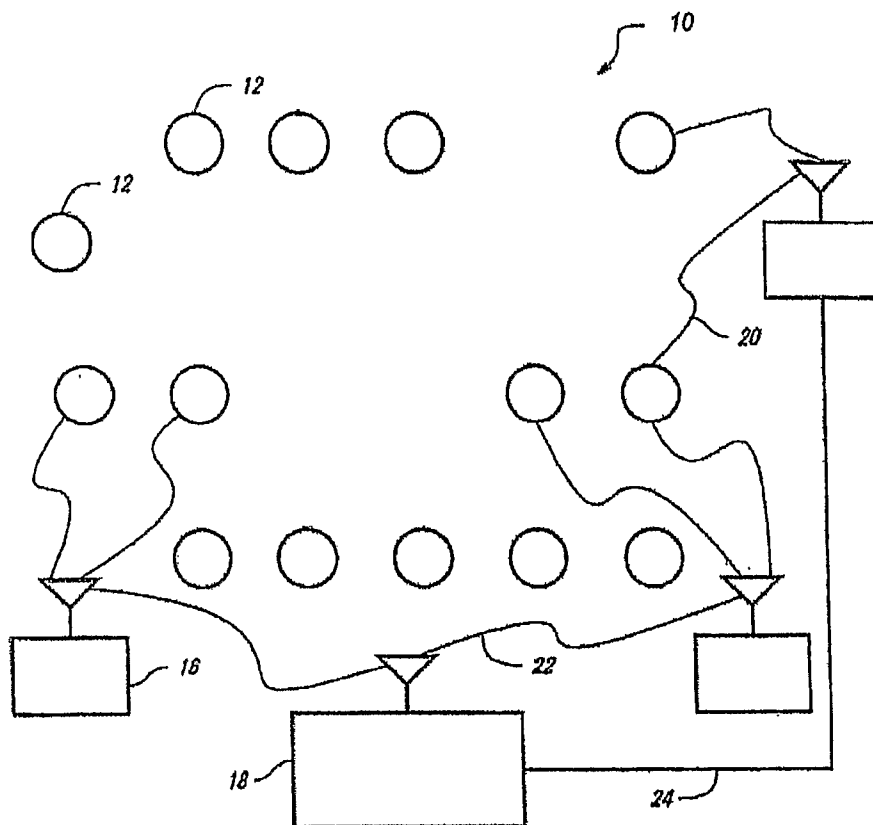
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(54) Title: CLEAR-CHANNEL SYSTEM AND RELATED APPLICATIONS



(57) Abstract: A wireless spread-spectrum communication system for transmitting data includes a plurality of end point transmitters and at least one receiver. The end point transmitters transmit data via a frequency-hopped spread-spectrum signal where the transmitting signal is sent without the benefit of frequency stabilization. The receiver is responsive to the frequency-hopping spread-spectrum signals and includes a correlator and a signal processor. The correlator samples at least a first portion of a preamble of the signal and correlates the portion of the preamble with a known preamble pattern to determine a probability of correlation. The signal processor applies a Fast Fourier Transform algorithm to the signal in response to the probability of correlation to track a narrowband frequency of the signal based on at least a second portion of the preamble and to decode data encoded within the signal subsequent to the preamble.

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B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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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)
 EAST, IEEE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2004/0047324 A1 (DIENER) 11 March 2004 (11.04.2004), columns 12-67	1,3,4,5,6,7,9,10 ----- 1,3,5,7,10
Y	US 2004/0263352 A1 (CORNWELL et al.) 30 December 2004 (30.12.2004), paragraphs 0003 and 0010	1
Y	US 6,084,919 A (KLEIDER et al.) 04 July 2000 (04.07.2000), abstract and column 4	3,5,7,10

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