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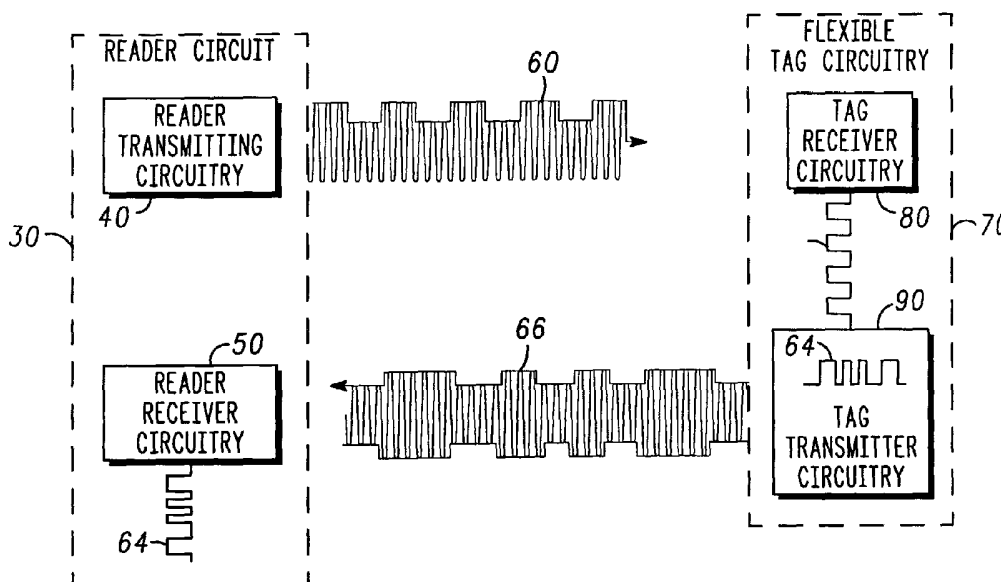
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(54) Title: A SUBCARRIER IN AN ORGANIC RFID SEMICONDUCTOR



(57) Abstract: A radio frequency identification system (20) comprising a radio reader circuit (30) operable to emit a radio frequency carrier signal (60) modulated with a subcarrier, which has a subcarrier modulation rate. The radio frequency identification tag circuit (70) is operable to extract the subcarrier from the emitted radio frequency carrier signal (60) and the extracted subcarrier then functions as a clock, which operates to assist in the transfer of a modulated backscattered signal (66) to the radio frequency identification reader circuit (70). The radio frequency identification reader circuit (70) decodes the modulated backscattered signal (66) and the data encoded in the radio frequency identification tag circuit (70) is obtained.

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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)
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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)

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 6,456,668 B1 (MACLELLAN et al.) 24 September 2002 (24.09.2002), see entire document	1-2, 8-9 ----- 1-10
X --- Y	US 6,133,835 A (DELEEUW et al.) 17 October 2000 (17.10.2000), see entire document.	3-6 ----- 1-10
X --- Y	US 6,204,764 B1 (MALONEY) 20 March 2001 (20.03.2001), see entire document.	7, 10 ----- 1-10

Further documents are listed in the continuation of Box C.

See patent family annex.

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