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(54) Title: CODING A SIGNAL WITH A SHUFFLED-HADAMARD FUNCTION

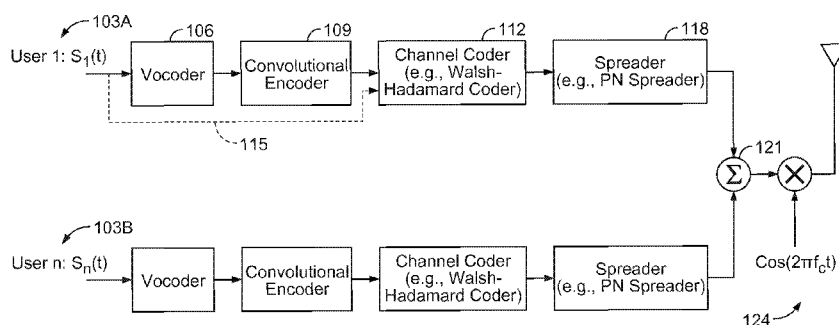


FIG. 1

(57) Abstract: A method can include receiving, at an electronic transmitter device, for communication to an electronic receiver device, a first data value corresponding to one of a plurality of predetermined data values; identifying, from a matrix of data bits having the form of a $2^N \times 2^N$ Hadamard matrix whose rows have been randomly or pseudo-randomly shuffled, a column of data bits that is associated with the first data value; and transmitting to the electronic receiver device, in place of the first data value, the identified column of data bits. The method can further include receiving data at the electronic receiver; correlating the received data to the identified column of data bits; and providing the first data value for further processing by the electronic receiver.