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(54) Title: ENCODING/DECODING n -BIT SOURCE WORDS INTO CORRESPONDING m -BIT CHANNEL WORDS, AND VICE VERSA, SUCH THAT THE CONVERSION IS PARITY INVERTING

(57) Abstract

A device is disclosed for encoding a stream of databits of a binary source signal (S) into a stream of databits of a binary channel signal (C), wherein the bitstream of the source signal is divided into n -bit source words, which device comprises converting means adapted to convert said source words into corresponding m -bit channel words. The converting means are further adapted to convert a block of p consecutive n -bit source words into corresponding m -bit channel words, such that the conversion for each n -bit source word is parity inverting. The relations hold that $m > n \geq 1$, $p \geq 1$, and that p is an odd integer that can vary. Preferably, $m=n+1$. Further, a decoding device is disclosed for decoding the channel signal obtained by means of the encoding device.

