

Title (en)
METHOD AND APPARATUS FOR CODING INFORMATION, METHOD AND APPARATUS FOR DECODING CODED INFORMATION, METHOD OF FABRICATING A RECORDING MEDIUM, THE RECORDING MEDIUM AND MODULATED SIGNAL

Title (de)
VERFAHREN UND VORRICHTUNG ZUR INFORMATIONSKODIERUNG, VERFAHREN UND VORRICHTUNG ZUR DEKODIERUNG VON KODierter INFORMATION, VERFAHREN ZUR HERSTELLUNG EINES AUFZEICHNUNGSTRAEGERS, AUFZEICHNUNGSTRAEGER UND MODULiertes SIGNAL

Title (fr)
PROCEDE ET APPAREIL DE CODAGE D'INFORMATION, PROCEDE ET APPAREIL DE DECODAGE D'INFORMATION, PROCEDE DE FABRICATION D'UN SUPPORT D'ENREGISTREMENT, LE SUPPORT D'ENREGISTREMENT ET SIGNAL MODULE

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Abstract (en)
[origin: WO0241500A1] In the coding device and method, m-bit information words are converted into n-bit code words such that the coding rate m/n is greater than $2/3$. The n-bit code words are divided into a first type and a second type, and into coding states of a first kind and a second kind such that an m-bit information word is converted into an n-bit code word of the first or second kind if the previous m-bit information word was converted into an n-bit code word of the first type and is converted into an n-bit code word of the first kind if the previous m-bit information word was converted into an n-bit code word of the second type. In one embodiment, n-bit code words of the first type end in zero, n-bit code words of the second type end in one, n-bit code words of the first kind start with zero, and n-bit code words of the second kind start with zero or one. Furthermore, in the embodiments, the n-bit code words satisfy a dk-constraint to $(1,k)$ such that a minimum of 1 zero and a maximum of k zeros falls between consecutive ones. The coding device and method are employed to record information on a recording medium and thus create the recording medium. The coding device and method are further employed to transmit information. In the decoding method and apparatus, n-bit code words are decoded into m-bit information words. The decoding involves determining the state of a next n-bit code word, and based on the state determination, the current n-bit code word is converted into an m-bit information word. The decoding device and method are employed to reproduce information from a recording medium, and to receive information transmitted over a medium.

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Citation (search report)

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Citation (examination)

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