

Title (en)
CODING METHOD

Title (de)
KODIERUNGSVERFAHREN

Title (fr)
PROCEDE DE CODAGE

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Application
EP 02738289 A 20020530

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Abstract (en)
[origin: WO02098092A1] The invention consists in coding a binary word according to a plurality of coding tables, whereby the coding table is chosen for each binary word to be coded, according to at least one item of additional information to be coded. In one embodiment, a word consisting of p bits is coded with a symbol which is composed of q ternary numbers, p and q being chosen in such a way that the number of symbols having a weight of zero is equal to $2 \times 2^{<p>}$. A first coding table comprises $2^{<p>}$ symbol, having a weight of zero. A second coding table comprises $2^{<p>}$ other symbols having a weight of zero. In a second embodiment, p and q are chosen in such a way that the number of symbols having a weight of zero or equal to ± 1 is at least equal to $3 \times 2^{<p>}$; a first coding table comprises $2^{<p>}$ symbols, having a weight of zero; a second coding table comprises $2^{<p>}$ other symbols having a weight of equal to -1; and a third coding table comprises $2^{<p>}$ other symbols having a weight equal to +1. In a third embodiment q binary symbols are used; p and q are chosen in such a way that q is greater than or equal to p+1; a first coding table comprises $2^{<p>}$ symbols; and a second coding table comprises $2^{<p>}$ other symbols. The invention can be used in particular with data transmission networks in compliance with the IEEE 802.3 standard.

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