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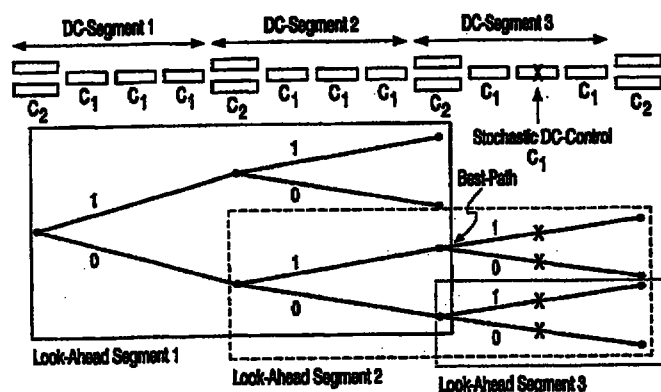
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(54) Title: **METHOD OF CONVERTING A STREAM OF DATABITS OF A BINARY INFORMATION SIGNAL INTO A STREAM OF DATABITS OF A CONSTRAINED BINARY CHANNEL SIGNAL, DEVICE FOR ENCODING, SIGNAL COMPRISING A STREAM OF DATABITS OF A CONSTRAINED BINARY CHANNEL SIGNAL, RECORD CARRIER, METHOD FOR DECODING, DEVICE FOR DECODING**



(57) Abstract: The invention relates to a method of converting a stream of databits of a binary information signal into a stream of databits of a constrained binary channel signal, this signal being constructed by repetitively or alternate using a channel code C₁ and a channel code C₂. Due to the fact that two channel words with opposite parities are available in the channel code C₂ for each information word, and that the same state is established, predetermined properties of the constrained binary channel signal can be influenced, e.g. for performing guaranteed DC-control, i.e. independent of the contents of the stream of databits of the binary information signal. Due to the fact that the method further comprises the step of substituting, in dependence upon a value of a predetermined property of the binary channel signal, a channel word for a substitute channel word, wherein the substituted channel word and the substitute channel word establish the same state, predetermined properties of the constrained binary channel signal can be further influenced. The invention further relates to a device for encoding, a signal, a record carrier, a method for decoding and a device for decoding.