

Title (en)  
DECODING METHOD AND DECODING DEVICE

Title (de)  
ENTSCHLÜSSELUNGSVERFAHREN UND ENTSCHLÜSSELUNGSVORRICHTUNG

Title (fr)  
PROCÉDÉ DE DÉCODAGE ET DISPOSITIF DE DÉCODAGE

Publication  
**EP 2361458 A4 20140709 (EN)**

Application  
**EP 09830264 A 20091009**

Priority  
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Abstract (en)  
[origin: WO2010064496A1] The decoding method comprises storing, successively performing, determining, first performing, second performing, and outputting. The storing stores the N received branchwords in memory. The successively performing performs Viterbi updates on a sequence of branchwords. The determining determines a first encoder state at the end of the third block most likely to have generated the final branchword in the sequence from the best path metric. The first performing performs a Viterbi traceback procedure from the first encoder state at the end of the third block to determine a second encoder state at the start of the third block of branchwords. The second performing performs a Viterbi traceback procedure from that second encoder state at the start of the third block to determine a third encoder state at the start of the second block of branchwords. The outputting outputs a derived tail-biting path, if the second and third encoder states are identical.

IPC 8 full level  
**H03M 13/41** (2006.01)

CPC (source: EP)  
**H03M 13/413** (2013.01); **H03M 13/4169** (2013.01)

Citation (search report)  
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• [I] COX R V ET AL: "A CIRCULAR VITERBI ALGORITHM FOR DECODING TAILBITING CONVOLUTIONAL CODES", PROCEEDINGS OF 43TH IEEE VEHICULAR TECHNOLOGY CONFERENCE (VTC), 18-20 MAY 1998, SECAUCUS, NJ, USA, 18 May 1993 (1993-05-18), pages 104 - 107, XP000393135, ISBN: 978-0-7803-1267-8  
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Designated contracting state (EPC)  
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