

Title (en)  
METHOD AND APPARATUS FOR CODING AN INFORMATION SIGNAL

Title (de)  
VERFAHREN UND GERÄT ZUR KODIERUNG VON INFORMATIONSSIGNALEN

Title (fr)  
PROCEDE ET APPAREIL DE CODAGE D'UN SIGNAL D'INFORMATIONS

Publication  
**EP 1112625 A4 20040616 (EN)**

Application  
**EP 99943854 A 19990824**

Priority  
• US 9919217 W 19990824  
• US 15143098 A 19980911

Abstract (en)  
[origin: WO0016501A1] To achieve high quality speech reconstruction at low bit rates, constraints on position combinations among two or more pulses (403) are implemented. By placing constraints on position combinations, certain combinations of pulses are prohibited which allows the most significant pulses to always be coded, thereby improving speech quality. After all valid combinations are considered, a list of pulse pairs (codebook) which can be indexed using a single, predetermined bit length codeword is produced. The codeword is transmitted to a destination where it is used by a decoder to reconstruct the original information signal.

IPC 1-7  
**H04B 7/216**; **G10L 19/10**

IPC 8 full level  
**H03M 7/30** (2006.01)

CPC (source: EP KR)  
**G10L 19/10** (2013.01 - EP); **G10L 19/12** (2013.01 - KR); **G10L 19/107** (2013.01 - EP)

Citation (search report)  
• [A] EP 0397628 A1 19901114 - ERICSSON TELEFON AB L M [SE]  
• [A] CHENG DEYUAN ED - YUAN B ET AL: "An 8 kb/s low complexity ACELP speech codec", SIGNAL PROCESSING, 1996., 3RD INTERNATIONAL CONFERENCE ON BEIJING, CHINA 14-18 OCT. 1996, NEW YORK, NY, USA,IEEE, US, 14 October 1996 (1996-10-14), pages 671 - 674, XP010209596, ISBN: 0-7803-2912-0  
• See references of WO 0016501A1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**WO 0016501 A1 20000323**; AT E328407 T1 20060615; DE 69931641 D1 20060706; DE 69931641 T2 20061005; EP 1112625 A1 20010704; EP 1112625 A4 20040616; EP 1112625 B1 20060531; JP 2002525667 A 20020813; JP 4460165 B2 20100512; KR 100409167 B1 20031212; KR 20010073146 A 20010731

DOCDB simple family (application)  
**US 9919217 W 19990824**; AT 99943854 T 19990824; DE 69931641 T 19990824; EP 99943854 A 19990824; JP 2000570919 A 19990824; KR 20017003129 A 20010310