Title (en)

SPEECH CODING METHOD USING LINEAR PREDICTION AND ALGEBRAIC CODE EXCITATION

Title (de)

VERFAHREN ZUR SPRACHKODIERUNG MITTELS LINEARER PRÄDIKTION UND ANREGUNG DURCH ALGEBRAISCHE KODES

Title (fr)

PROCEDE DE CODAGE DE PAROLE A PREDICTION LINEAIRE ET EXCITATION PAR CODES ALGEBRIQUES

Publication

EP 0749626 B1 19991020 (FR)

Application

EP 96901020 A 19960104

Priority

- FR 9600017 W 19960104
- FR 9500133 A 19950106

Abstract (en)

[origin: WO9621221A1] A method using the algebraic index CELP coding technique. The search for CELP excitation comprises calculating certain components of covariance matrix U = H<T>.H where H is a lower triangular Toeplitz matrix formed from the impulse response of a filter consisting of synthesis filters and a perceptual weighting filter. The stored covariance matrix components are only those of pattern U(posi,p,posi,p) and those of pattern U(posi,p,posj,q), where posi,p and posj,q are the i position and the j position respectively for pulses p and q in the algebraic index codes.

IPC 1-7

G10L 9/14

IPC 8 full level

G10L 19/08 (2006.01); **G10L 19/10** (2006.01); **G10L 19/107** (2013.01); **G10L 19/12** (2006.01); **H03M 7/30** (2006.01); G10L 19/00 (2006.01)

CPC (source: EP KR US)

G10L 13/00 (2013.01 - KR); **G10L 19/107** (2013.01 - EP US); G10L 2019/0008 (2013.01 - EP US); G10L 2019/0014 (2013.01 - EP US)

Cited by

CN102194461A

Designated contracting state (EPC)

DE GB IT NL SE

DOCDB simple family (publication)

WO 9621221 A1 19960711; CA 2182386 A1 19960711; CA 2182386 C 20030909; DE 69604729 D1 19991125; DE 69604729 T2 20020725; EP 0749626 A1 19961227; EP 0749626 B1 19991020; FR 2729245 A1 19960712; FR 2729245 B1 19970411; JP 3481251 B2 20031222; JP H10502191 A 19980224; KR 100389693 B1 20031201; KR 970701901 A 19970412; US 5717825 A 19980210

DOCDB simple family (application)

FR 9600017 W 19960104; CA 2182386 A 19960104; DE 69604729 T 19960104; EP 96901020 A 19960104; FR 9500133 A 19950106; JP 52078896 A 19960104; KR 19960704904 A 19960905; US 68272196 A 19960826