

Title (en)

Coding method and linear prediction speech coder.

Title (de)

Kodierungsverfahren und linearer Prädiktionssprachkodierer.

Title (fr)

Procédé de codage et codeur de parole à prédiction linéaire.

Publication

**EP 0347307 B1 19940504 (FR)**

Application

**EP 89401644 A 19890613**

Priority

FR 8807846 A 19880613

Abstract (en)

[origin: EP0347307A2] The method, usable in particular for low-rate speech transmission, uses vector excitation. A signal frame is represented, on the one hand, by prediction parameters, and on the other hand, by a succession of excitation vectors contained in a dictionary (20) and by amplification gains (Gk) of these vectors, the vectors adopted being determined by searching for the minimum energy of an error signal obtained by subtraction of each vector in its turn, after having submitted to a filtering, from the frame of the speech signal. Before subtraction: each frame of the speech signal is subjected to a short-term analysis filtering and to a weighted synthesis filtering, with coefficients possibly fixed in time, and the amplified vector is subjected to a long-term predictive filtering and to the same perceptual weighted synthesis filtering as the speech signal.

<IMAGE>

IPC 1-7

**G10L 9/14**

IPC 8 full level

**G10L 19/005** (2013.01); **G10L 19/113** (2013.01); **G10L 25/06** (2013.01)

CPC (source: EP)

**G10L 19/005** (2013.01); **G10L 19/113** (2013.01); **G10L 25/06** (2013.01); **G10L 2019/0003** (2013.01); **G10L 2019/0014** (2013.01)

Cited by

ES2042410A2; US6016468A; EP0685836A1; FR2720849A1; US5644679A; US8843366B2

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

**EP 0347307 A2 19891220**; **EP 0347307 A3 19901227**; **EP 0347307 B1 19940504**; DE 68915057 D1 19940609; DE 68915057 T2 19940818; ES 2052043 T3 19940701; FR 2632758 A1 19891215; FR 2632758 B1 19910607

DOCDB simple family (application)

**EP 89401644 A 19890613**; DE 68915057 T 19890613; ES 89401644 T 19890613; FR 8807846 A 19880613