

Title (en)

SPEECH CODING METHOD USING SYNTHESIS ANALYSIS

Title (de)

VERFAHREN ZUR SPRACHKODIERUNG MITTELS ANALYSE DURCH SYNTHESE

Title (fr)

PROCEDE DE CODAGE DE PAROLE A ANALYSE PAR SYNTHESE

Publication

**EP 0801790 A1 19971022 (FR)**

Application

**EP 96901010 A 19960103**

Priority

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- FR 9500135 A 19950106

Abstract (en)

[origin: WO9621220A1] A speech signal linear prediction analysis is performed for each frame of a speech signal to determine the coefficients of a short-term synthesis filter, and an open-loop analysis is performed to determine a degree of frame voicing. At least one closed-loop analysis is performed for each sub-frame to determine an excitation sequence which, when applied to the short-term synthesis filter, generates a synthetic signal representative of the speech signal. Each closed-loop analysis uses the impulse response of a filter consisting of the short-term synthesis filter and a perceptual weighting filter, by truncating said impulse response to a truncation length that is no greater than the number of samples per sub-frame, and dependent on the energy distribution of said response and the degree of voicing of the frame.

IPC 1-7

**G10L 9/14**

IPC 8 full level

**G10L 19/083** (2013.01); **G10L 19/10** (2013.01); **G10L 25/24** (2013.01); **G10L 25/93** (2013.01)

CPC (source: EP US)

**G10L 19/083** (2013.01 - EP US); **G10L 19/10** (2013.01 - EP US); **G10L 25/24** (2013.01 - EP US); **G10L 25/93** (2013.01 - EP US); **G10L 2019/0003** (2013.01 - EP US); **G10L 2019/0011** (2013.01 - EP US); **G10L 2019/0012** (2013.01 - EP US)

Citation (search report)

See references of WO 9621220A1

Cited by

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**WO 9621220 A1 19960711**; AT E180092 T1 19990515; AU 4490396 A 19960724; AU 697892 B2 19981022; BR 9606887 A 19971028; CA 2209623 A1 19960711; CN 1173938 A 19980218; DE 69602421 D1 19990617; DE 69602421 T2 19991223; EP 0801790 A1 19971022; EP 0801790 B1 19990512; FR 2729247 A1 19960712; FR 2729247 B1 19970307; US 5963898 A 19991005

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