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 B1 19990512 (FR)

Application
   EP 96901010 A 19960103

Priority
   • FR 9600006 W 19960103
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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)
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   G10L 2019/0003 (2013.01 - EP US); G10L 2019/0011 (2013.01 - EP US); G10L 2019/0012 (2013.01 - EP US)

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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;
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