

Title (en)

APPARATUS FOR NOISE SUPPRESSION IN AN AUDIO SIGNAL

Title (de)

VORRICHTUNG ZUR GERÄUSCHUNTERDRÜCKUNG BEI EINEM AUDIOSIGNAL

Title (fr)

DISPOSITIF D'ÉLIMINATION DU BRUIT DANS UN SIGNAL AUDIO

Publication

**EP 2080197 B1 20110112 (DE)**

Application

**EP 07800169 A 20070906**

Priority

- AT 2007000424 W 20070906
- AT 15472006 A 20060915

Abstract (en)

[origin: WO2008031124A1] An apparatus for noise suppression having a linear prediction analysis circuit having an LP error filter (LFF), which takes a first, noisy voice signal  $y(n) = x(n) + e(n)$  as a basis for producing an LP-error-filter output signal  $e(n)$ , having a coefficient calculation unit (KBE), which updates the coefficients of the LP error filter on the basis of the internal signals (including the input and output signals  $y(n)$  and  $e(n)$ ) in the LP error filter, and having a subtraction unit, which subtracts the LP error filter output signal  $e(n)$  from the first voice signal  $y(n)$  in a subtractor and, following the subtraction, outputs the remainder as a second voice signal  $x(n) = y(n) - e(n)$  in which the noise is suppressed, where a noise estimation unit (GSE) is provided which takes the internal signals of the LP error filter as a basis for producing a noise power signal  $s_{\text{SUB}}(n)$

IPC 8 full level

**G10L 21/02** (2006.01); **G10L 21/0208** (2013.01); **G10L 25/12** (2013.01)

CPC (source: EP US)

**G10L 21/0208** (2013.01 - EP US); **G10L 25/12** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2008031124 A1 20080320**; AT 504164 A1 20080315; AT 504164 B1 20090415; AT E495523 T1 20110115; DE 502007006264 D1 20110224; EP 2080197 A1 20090722; EP 2080197 B1 20110112; US 2010049507 A1 20100225

DOCDB simple family (application)

**AT 2007000424 W 20070906**; AT 07800169 T 20070906; AT 15472006 A 20060915; DE 502007006264 T 20070906; EP 07800169 A 20070906; US 44095207 A 20070906