

Title (en)  
Method of noise reduction of an audio signal

Title (de)  
Verfahren zur Geräuschkämpfung eines Audiosignals

Title (fr)  
Procédé de débruitage d'un signal audio

Publication  
**EP 1830349 B1 20111130 (FR)**

Application  
**EP 07290219 A 20070221**

Priority  
FR 0601822 A 20060301

Abstract (en)  
[origin: EP1830349A1] The method involves determining a reference signal by applying a process to a noisy audio signal for attenuating voice components in the audio signal by utilizing predictive least mean square (LMS) algorithm. Probability of presence/absence of voice is determined from respective energy levels in a spectral range of the audio and reference signals. A noise spectrum is estimated, and a noise reduction value is derived from the audio signal by utilizing the probability.

IPC 8 full level  
**G10L 21/02** (2006.01); **G10L 21/0208** (2013.01)

CPC (source: EP US)  
**G10L 21/0208** (2013.01 - EP US)

Cited by  
EP2131357A1; FR2950461A1; CN116644281A; US8195246B2

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**EP 1830349 A1 20070905; EP 1830349 B1 20111130**; AT E535905 T1 20111215; ES 2378482 T3 20120413; FR 2898209 A1 20070907; FR 2898209 B1 20081212; US 2007276660 A1 20071129; US 7953596 B2 20110531; WO 2007099222 A1 20070907

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**EP 07290219 A 20070221**; AT 07290219 T 20070221; ES 07290219 T 20070221; FR 0601822 A 20060301; FR 2007000347 W 20070227; US 71061307 A 20070226