

Title (en)
Method and system for noise reduction

Title (de)
Verfahren und System für die Geräuschunterdrückung

Title (fr)
Procédé et système de réduction du bruit

Publication
EP 2515300 B1 20140514 (FR)

Application
EP 12163679 A 20120411

Priority
FR 1153507 A 20110422

Abstract (en)
[origin: EP2515300A1] The method involves converting noisy acoustic signal in time domain into noisy signal in frequency domain, and estimating a noise component in the signal from a square modulus by a minima controlled recursive averaging algorithm. Frequential band is cut into frequential subbands based on mutiband decomposition of the modulus and the component. A square modulus of a noiseless component of each subband is estimated. Noiseless output signal is determined from the estimated modulus using a determination module (36). The noiseless signal is converted into noiseless voice signal in time domain. The conversion of the noiseless signal is carried out by computing sampled output signal for time frames by applying inverse Fourier transform of the noiseless output signal and performing temporal reconstruction of noiseless output voice signal from the sampled signal. An independent claim is also included for a system for reducing noise in noisy acoustic signal obtained from a microphone operating in noisy environment.

IPC 8 full level
G10L 21/0208 (2013.01); **G10L 25/18** (2013.01)

CPC (source: EP)
G10L 21/0208 (2013.01); **G10L 25/18** (2013.01)

Cited by
CN116495946A; CN113367676A; CN111854920A

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2515300 A1 20121024; **EP 2515300 B1 20140514**; ES 2492698 T3 20140910; FR 2974443 A1 20121026; FR 2974443 B1 20130426; PT 2515300 E 20140827

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