Title (en)

Audio device with suppression of noise in a voice signal using a fractional delay filter

Title (de)

Audiogerät mit Rauschunterdrückung in einem Sprachsignal unter Verwendung von einem Filter mit fraktionaler Verzögerung

Title (fr)

Equipement audio comprenant des moyens de débruitage d'un signal de parole par filtrage à délai fractionnaire

Publication

EP 2530673 B1 20130710 (FR)

Application

EP 12170407 A 20120601

Priority

FR 1154825 A 20110601

Abstract (en)

[origin: EP2530673A1] The equipment has microphones (10, 12) for picking up a speech of a user of the equipment, and an adaptive filter (16), which is a fractional delay filter for modeling a delay shorter than a sampling period of a sampling unit. A voice activity detector (20) and a sensor (22) deliver signals representing presence or absence of the speech. The adaptive filter receives the signals representing presence or absence of speech so as to act selectively either to perform an adaptive search for filter parameters in the absence of speech or to freeze the parameters in the presence of speech. The adaptive filter is a filter having a least mean square (LMS) type linear prediction algorithm.

IPC 8 full level

G10L 21/0208 (2013.01)

CPC (source: EP US)

G10L 21/0208 (2013.01 - EP US); G10L 2021/02165 (2013.01 - EP US)

Cited by

CN106157963A

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 2530673 A1 20121205; **EP 2530673 B1 20130710**; CN 103002170 A 20130327; CN 103002170 B 20160106; ES 2430121 T3 20131119; FR 2976111 A1 20121207; FR 2976111 B1 20130705; JP 2012253771 A 20121220; JP 6150988 B2 20170621; US 2012310637 A1 20121206; US 8682658 B2 20140325

DOCDB simple family (application)

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