

Title (en)
APPARATUS AND METHOD FOR ADAPTIVE SIGNAL CHARACTERIZATION AND NOISE REDUCTION IN HEARING AIDS AND OTHER AUDIO DEVICES

Title (de)
VORRICHTUNG UND VERFAHREN ZUR ADAPTIVEN SIGNALCHARAKTERISIERUNG UND RAUSCHREDUZIERUNG IN HÖRHILFEN UND ANDEREN AUDIOVORRICHTUNGEN

Title (fr)
APPAREIL ET PROCEDE DE CARACTERISATION ADAPTIVE DE SIGNAUX ET REDUCTION DE BRUIT DANS LES PROTHESES AUDITIVES ET D'AUTRES DISPOSITIFS AUDITIFS

Publication
EP 1371263 B1 20101208 (EN)

Application
EP 02716565 A 20020321

Priority
• CA 0200397 W 20020321
• CA 2341834 A 20010322
• US 27727501 P 20010321

Abstract (en)
[origin: WO02076148A2] A system and method for characterizing the contents of an input audio signal and for suppressing noise components of the input audio signal are described. The audio signal is divided into a number of frequency domain input signals. Each frequency domain input signal can be processed separately to determine its intensity change, modulation frequency, and time duration characteristics to characterize the frequency domain input signal as containing a desirable signal or as a type of noise. An index signal is calculated based on a combination of the determined characteristics and signals identified as noise are suppressed in comparison to signals identified as desirable to produce a set of frequency domain output signals with reduced noise. The frequency domain output signals are combined to provide an output audio signal corresponding to the input audio signal but having suppressed noise components and comparatively enhanced desirable signal components.

IPC 8 full level
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CPC (source: EP)
G10L 21/0208 (2013.01); **H04R 5/04** (2013.01); **H04R 25/505** (2013.01); **H04S 1/002** (2013.01); **G10L 2021/065** (2013.01)

Citation (examination)
• US 6198830 B1 20010306 - HOLUBE INGA [DE], et al
• US 4025721 A 19770524 - GRAUPE DANIEL, et al
• EP 0599132 A2 19940601 - NOKIA TECHNOLOGY GMBH [DE]

Cited by
US9498626B2; US8929994B2; US9126041B2

Designated contracting state (EPC)
DE DK

DOCDB simple family (publication)
WO 02076148 A2 20020926; **WO 02076148 A3 20030821**; AU 2002247575 A1 20021003; EP 1371263 A2 20031217; EP 1371263 B1 20101208

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