

Title (en)

Method of processing an acoustical signal and a hearing instrument

Title (de)

Verfahren zur Verarbeitung eines akustischen Signals und ein Hörgerät

Title (fr)

Procédé de traitement d'un signal acoustique et un appareil auditif

Publication

EP 1469703 A2 20041020 (EN)

Application

EP 04405272 A 20040430

Priority

EP 04405272 A 20040430

Abstract (en)

A method of processing an acoustic input signal into an output signal in a hearing instrument includes converting the acoustic input signal into a converted input signal, and applying a gain to the converted input signal to obtain the output signal. According to the invention, the gain is calculated using a room impulse attenuation value being a measure of a maximum negative slope of the a converted input signal power on a logarithmic scale. The calculation of the gain may include evaluating a signal power development value being a measure of the actual converted input signal power attenuation or signal power increase, evaluating a signal-to-reverberation-noise ratio from the signal power development value and the room impulse attenuation value, and calculating, based on a gain rule, said gain from said signal-to-reverberation-noise ratio. <IMAGE>

IPC 1-7

H04R 25/00; **G10L 21/02**

IPC 8 full level

G10L 21/02 (2006.01); **H04R 25/00** (2006.01)

CPC (source: EP)

H04R 25/505 (2013.01); **H04R 2225/43** (2013.01)

Cited by

EP2573768A3; EP1772713A4; EP1753264A1; GB2551499A; GB2551499B; CN113132882A; JP2019033477A; US9093077B2; WO2012010218A1; US9167359B2; EP3337190A1; US10499167B2

Designated contracting state (EPC)

CH DE DK LI

DOCDB simple family (publication)

EP 1469703 A2 20041020; **EP 1469703 A3 20050622**; **EP 1469703 B1 20070613**; DE 602004006912 D1 20070726; DE 602004006912 T2 20080228; DK 1469703 T3 20071008

DOCDB simple family (application)

EP 04405272 A 20040430; DE 602004006912 T 20040430; DK 04405272 T 20040430