

Title (en)

Acoustical feedback suppression for audio amplification systems

Title (de)

Akustische Rückkopplungsunterdrückung für Audioamplifikationssysteme

Title (fr)

Suppression de la rétroaction acoustique pour les systèmes de amplification audio

Publication

EP 1793645 A2 20070606 (EN)

Application

EP 06251486 A 20060321

Priority

HK 05109977 A 20051109

Abstract (en)

A method of acoustic feedback suppression, comprising the steps of:- i). obtaining digitized time-domain samples of acoustic signals, ii). performing discrete time-frequency transformation on the digitized time-domain samples to generate a plurality of frequency bins of a frequency resolution, iii). identifying a howling frequency bin, said howling frequency having the maximum magnitude among the plurality of frequency bins, iv). detecting a peak frequency within said howling frequency bin for suppression, and v). suppressing said peak frequency.

IPC 8 full level

H04R 3/02 (2006.01)

CPC (source: EP)

H04R 3/02 (2013.01)

Citation (applicant)

- US 5245665 A 19930914 - LEWIS MICHAEL P [US], et al
- US 5999631 A 19991207 - PORAYATH RAJIV [US], et al
- US 6611600 B1 20030826 - LEBER REMO [CH], et al
- US 2003210797 A1 20031113 - KREIFELDT RICHARD A [US], et al
- WO 9805135 A1 19980205 - SHURE BROS [US]

Citation (examination)

US 2003099365 A1 20030529 - KARJALAINEN MATTI [FI], et al

Cited by

EP2148526A1; CN110186546A; CN102318371A; CN106653038A; CN108293164A; CN109671445A; US8422707B2

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

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1793645 A2 20070606; EP 1793645 A3 20080806

DOCDB simple family (application)

EP 06251486 A 20060321