

Title (en)

Digital feed-forward active noise control system

Title (de)

Digitales vorwärtsgeregeltes System für aktive Lärmkontrolle

Title (fr)

Système de contrôle actif du bruit à correction aval

Publication

EP 1074971 B1 20030409 (EN)

Application

EP 00122368 A 19960702

Priority

- EP 96920661 A 19960702
- US 83495 P 19950703

Abstract (en)

[origin: EP1074971A2] A method of noise control of an acoustic signal comprising: obtaining a reference signal (X) of the acoustic signal to be controlled, applying an antinoise signal to the acoustic signal so as to control the acoustic signal, obtaining an error signal (E) resulting from the application of the antinoise signal (U) to the acoustic signal, generating the antinoise signal from the reference signal by passing the noise signal through a first filter (33) having controllable filter coefficients, using a simplified model (31) of a signal path from a location (19) of the antinoise signal to a location (21) of the error signal to obtain modified representations of the noise signal, controlling the filter coefficients by processing the error signal and the modified representation of the noise signal and generating a coefficient control signal (35) such as to generate the antinoise signal, and applying the coefficient control signal to the first filter.

IPC 1-7

G10K 11/178

IPC 8 full level

G10K 11/178 (2006.01)

CPC (source: EP US)

G10K 11/17817 (2017.12 - EP US); **G10K 11/17823** (2017.12 - EP US); **G10K 11/17825** (2017.12 - EP US); **G10K 11/17854** (2017.12 - EP US); **G10K 11/17855** (2017.12 - EP US); **G10K 11/17857** (2017.12 - EP US); **G10K 11/17881** (2017.12 - EP US); **G10K 2210/1081** (2013.01 - EP); **G10K 2210/3027** (2013.01 - EP); **G10K 2210/3053** (2013.01 - EP); **G10K 2210/3213** (2013.01 - EP)

Cited by

CN113421540A; GB2465681A; GB2465681B; GB2441835A; GB2441835B; GB2460972A; GB2460972B; EP3407347A1; GB2582374A; GB2582374B; US12014715B2; US9082389B2; WO2008096125A3; WO2013148840A1; US10347233B2; US11062689B2; US10325587B2; US10332502B2; US10607592B2; US12062355B2; US8165312B2; US8644523B2; US9558729B2; US10319361B2; US10818281B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1074971 A2 20010207; **EP 1074971 A3 20010509**; **EP 1074971 B1 20030409**; EP 1074970 A2 20010207; EP 1074970 A3 20010509; EP 1074970 B1 20030423

DOCDB simple family (application)

EP 00122368 A 19960702; EP 00122367 A 19960702