

Title (en)

FEEDBACK ADAPTIVE NOISE CANCELLATION (ANC) CONTROLLER AND METHOD HAVING A FEEDBACK RESPONSE PARTIALLY PROVIDED BY A FIXED-RESPONSE FILTER

Title (de)

RÜCKKOPPLUNGSSTEUERGERÄT FÜR ADAPTIVE RAUSCHUNTERDRÜCKUNG (ANC) UND VERFAHREN MIT TEILWEISE DURCH EINEN FIXED-RESPONSE-FILTER BEREITGESTELLTER RÜCKKOPPLUNGSREAKTION

Title (fr)

CONTRÔLEUR D'ÉLIMINATION DE BRUIT ADAPTATIF DE RÉTROACTION (ANC) ET PROCÉDÉ AYANT UNE RÉPONSE DE RÉTROACTION PARTIELLEMENT FOURNIE PAR UN FILTRE À RÉPONSE FIXE

Publication

**EP 3338279 A1 20180627 (EN)**

Application

**EP 16763937 A 20160819**

Priority

- US 201562207657 P 20150820
- IB 2016001234 W 20160819

Abstract (en)

[origin: CN108140380A] A controller for an adaptive noise canceling (ANC) system simplifies the design of a stable control response by making the ANC gain of the system independent of a secondary path extending from a transducer of the ANC system to a sensor of the ANC system that measures the ambient noise. The controller includes a fixed filter having a predetermined fixed response, and a variable filter coupled together. The variable response filter compensates for variations of a transfer function of a secondary path that includes at least a path from a transducer of the ANC system to a sensor of the ANC system, so that the ANC gain is independent of the variations in the transfer function of the secondary path.

IPC 8 full level

**G10K 11/178** (2006.01); **G10L 21/028** (2013.01)

CPC (source: EP US)

**G10K 11/178** (2013.01 - EP US); **G10K 2210/108** (2013.01 - EP US); **G10K 2210/1081** (2013.01 - EP US); **G10K 2210/3017** (2013.01 - EP US); **G10K 2210/3026** (2013.01 - EP US); **G10K 2210/3027** (2013.01 - EP US)

Cited by

CN113140209A

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

CN 108140380 A 20180608; CN 108140380 B 20220527; EP 3338279 A1 20180627

DOCDB simple family (application)

CN 201680061514 A 20160819; EP 16763937 A 20160819