

Title (en)

Feedback active noise control system with a long secondary path

Title (de)

System zur aktiven Geräuschkontrolle mit Rückkopplung und einem langen zweiten Pfad

Title (fr)

Système de contrôle actif de bruit avec rétroaction et une voie secondaire longue

Publication

EP 2629289 B1 20220615 (EN)

Application

EP 12155561 A 20120215

Priority

EP 12155561 A 20120215

Abstract (en)

[origin: EP2629289A1] A feedback ANC system is disclosed that comprises a microphone (1) and a loudspeaker (2) arranged in a distance from each other; the microphone being acoustically coupled to the loudspeaker via a secondary path (3) and the loudspeaker being electrically coupled to the microphone via an ANC filter (6). The distance between the microphone and the loudspeaker is larger than a value that is determined by the speed of sound divided by 20 times an upper critical frequency of the ANC system.

IPC 8 full level

G10K 11/178 (2006.01)

CPC (source: EP US)

G10K 11/17817 (2017.12 - EP US); **G10K 11/17854** (2017.12 - EP US); **G10K 11/17857** (2017.12 - EP US); **G10K 11/17875** (2017.12 - EP US); **G10K 2210/108** (2013.01 - EP); **G10K 2210/1282** (2013.01 - EP); **G10K 2210/3011** (2013.01 - EP); **G10K 2210/3026** (2013.01 - EP)

Citation (examination)

JP H0632532 B2 19940427

Cited by

CN104616667A; DE102017126883A1; CN114582312A; US10339912B1; CN108140380A; US10013965B2; CN106143369A; CN108538304A; CN108615523A; EP3185241A1; CN106911982A; JP2017114475A; US10235985B2

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

DOCDB simple family (publication)

EP 2629289 A1 20130821; EP 2629289 B1 20220615

DOCDB simple family (application)

EP 12155561 A 20120215