

Title (en)
Active acoustic noise reduction system

Title (de)
Aktivsystem zur Reduktion des akustischen Rauschens

Title (fr)
Système actif de réduction de bruit acoustique

Publication
EP 1414021 B1 20080514 (EN)

Application
EP 02023483 A 20021021

Priority
EP 02023483 A 20021021

Abstract (en)
[origin: EP1414021A1] A microphone (30) and the loudspeakers (32) are arranged adjacently at same location. The microphone senses acoustic noise field of a noise source (24). A correction unit adjusts input signal from microphone for compensating non-linear characteristics of microphone and loudspeakers. The loudspeakers generate acoustic output field from the generated antinoise signal opposite in phase to input signal of microphone. Independent claims are also included for the following: (1) acoustic noise reduction method; and (2) acoustic noise control system.

IPC 8 full level
G10K 11/178 (2006.01)

CPC (source: EP US)
G10K 11/17819 (2017.12 - EP US); **G10K 11/17823** (2017.12 - EP US); **G10K 11/17854** (2017.12 - EP US); **G10K 11/17857** (2017.12 - EP US); **G10K 11/17873** (2017.12 - EP US)

Citation (examination)

- WO 0232356 A1 20020425 - LEAR CORP [US]
- EP 0818771 A2 19980114 - NEC CORP [JP]
- EP 0973151 A2 20000119 - MATSUSHITA ELECTRIC IND CO LTD [JP]

Cited by
US7783055B2; CN112053676A; CN109577957A; CN109979424A; US8630424B2; US7869607B2; US9928824B2; US10706834B2; US10410620B1; US7853024B2; TWI407430B; US9431001B2; US10629183B2; US8855329B2; US10741165B2; US11817114B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)
EP 1414021 A1 20040428; EP 1414021 B1 20080514; AT E395682 T1 20080515; DE 60226611 D1 20080626

DOCDB simple family (application)
EP 02023483 A 20021021; AT 02023483 T 20021021; DE 60226611 T 20021021