Title (en)

Noise canceling microphone array

Title (de)

Rauschunterdrückung-Mikrofonanordnung

Title (fr)

Système de microphones suppresseur de bruit

Publication

EP 1065909 A2 20010103 (EN)

Application

EP 00305471 A 20000629

Priority

US 34295799 A 19990629

Abstract (en)

A method for enhancing discrimination of sound received from a sound source (54) relative to acoustic interference, including: providing a plurality of sound sensors (52) in predetermined positions, and receiving respective signals from the plurality of sound sensors responsive to the interference and to the sound source. Respective characteristics of the plurality of signals in each of a plurality of spectral bands are determined, and the characteristics are analyzed to compute a spectral gain function (132) which discriminately enhances a portion of the signals that is associated with the sound source. The signals from one or more of the plurality of sensors are processed to generate a combined master signal, and the spectral gain function is applied to the master signal so as to generate an output signal in which the portion of the signals associated with the sound source is enhanced relative to that due to the acoustic interference. <IMAGE>

IPC 1-7

H04R 3/00

IPC 8 full level

H04R 1/28 (2006.01); **H04R 1/40** (2006.01); **H04R 3/00** (2006.01)

CPC (source: EP)

H04R 3/005 (2013.01); H04R 2201/403 (2013.01); H04R 2410/01 (2013.01)

Cited by

DE102004011149B3; US2010232620A1; US8615092B2; US8036888B2; WO03015459A3; WO03009636A3; US8923529B2; US9462380B2; US8565459B2; US8965003B2; US7142677B2; US7274794B1; US8462962B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1065909 A2 20010103; JP 2001045592 A 20010216

DOCDB simple family (application)

EP 00305471 A 20000629; JP 2000197129 A 20000629