

Title (en)

Piezoelectric audio device and method for sound production

Title (de)

Piezoelektrisches Audiogerät und Verfahren zur Schallwiedergabe

Title (fr)

Dispositif audio piézoélectrique et méthode pour la reproduction de son

Publication

EP 1051058 A2 20001108 (EN)

Application

EP 00106906 A 20000331

Priority

FI 991061 A 19990507

Abstract (en)

An arrangement (1) to improve the sound quality of a piezoelectric element actuating element (AE). A sensing element (ME) is attached to the piezoelectric element to supply an electric response to movement of the element when the plate vibrates producing a sound. The response is electrically filtered in order to compensate said mechanical resonance frequency band for stabilisation of said first signal. The filtered response is inverting summed by a summation node (SN) with the audio signal to be reproduced in order to compensate the otherwise exaggerated amplitude at these resonance frequencies. <IMAGE>

IPC 1-7

H04R 17/00

IPC 8 full level

H04R 3/04 (2006.01); **H04R 17/00** (2006.01)

CPC (source: EP)

H04R 17/00 (2013.01)

Cited by

CN113365192A; US2017257760A1; US10154411B2; DE102015114245A1; EP3136751A1; EP3321933A1; CN108076419A; EP3907734A1; US10045136B2; US10165364B2; US10327083B2; US10966029B2; WO2017032555A1; WO2017042130A1

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 1051058 A2 20001108; **EP 1051058 A3 20040929**; FI 114079 B 20040730; FI 991061 A0 19990507; FI 991061 A 20001108; JP 2000333288 A 20001130

DOCDB simple family (application)

EP 00106906 A 20000331; FI 991061 A 19990507; JP 2000138235 A 20000502