

Title (en)

System and method for audio system configuration

Title (de)

Vorrichtung und Verfahren zur Konfiguration von Audiosystemen

Title (fr)

Système et procédés de configuration de systèmes audio

Publication

**EP 1523221 B1 20170215 (EN)**

Application

**EP 04024188 A 20041011**

Priority

- US 50979903 P 20031009
- US 68422203 A 20031010
- US 68415203 A 20031010
- US 68404303 A 20031010
- US 68420803 A 20031010

Abstract (en)

[origin: EP1523221A2] A system is provided for configuring an audio system for a given space. The system may statistically analyze potential configurations of the audio system to configure the audio system. The potential configurations may include positions of the loudspeakers, numbers of loudspeakers, types of loudspeakers, listening positions, correction factors, filters, or any combination thereof. The statistical analysis may indicate at least one metric of the potential configuration including indicating consistency of predicted transfer functions, flatness of the predicted transfer functions, differences in overall sound pressure level from seat to seat for the predicted transfer functions, efficiency of the predicted transfer functions, or the output of predicted transfer functions. The system also provides a methodology for selecting loudspeaker locations, the number of loudspeakers, the types of loudspeakers, correction factors, listening positions, crossover filters or a combination of these schemes in an audio system that has a single listening position or multiple listening positions.

IPC 8 full level

**G01H 17/00** (2006.01); **H04S 7/00** (2006.01); **G10K 15/00** (2006.01); **H04R 3/04** (2006.01); **H04R 3/12** (2006.01); **H04R 3/14** (2006.01); **H04R 29/00** (2006.01)

CPC (source: EP)

**H04S 7/302** (2013.01); **H04S 7/307** (2013.01); **H04R 2499/13** (2013.01); **H04S 7/301** (2013.01)

Cited by

EP2261616A1; CN110139203A; CN102170600A; EP2384025A3; GB2442983A; EP4210354A1; EP2022675A4; WO2012145828A1; WO2007076863A1; US8194869B2; US8995673B2; US8094826B2; US8559655B2; US8750542B2; US8082051B2; US8532308B2; EP1745677B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1523221 A2 20050413**; **EP 1523221 A3 20101020**; **EP 1523221 B1 20170215**; JP 2005151539 A 20050609; JP 2010166584 A 20100729; JP 4596877 B2 20101215

DOCDB simple family (application)

**EP 04024188 A 20041011**; JP 2004298282 A 20041012; JP 2010036551 A 20100222