

Title (en)

Simulating and configuring an acoustic system

Title (de)

Simulation und Konfiguration eines akustischen Systems

Title (fr)

Simulation et configuration d'un système acoustique

Publication

**EP 2648425 B1 20190619 (EN)**

Application

**EP 12163054 A 20120403**

Priority

EP 12163054 A 20120403

Abstract (en)

[origin: EP2648425A1] The simulated speaker settings are generated such that said speakers produce a desired sound pressure distribution in an acoustical space of a venue. The method includes the steps of: providing an at least partially bounded virtual space on a graphical display, wherein at least part of said virtual space substantially matches the acoustic space of said venue; determining one or more sound spots by selecting one or more volumes in said virtual space and assigning said one or more sound pressure values to said volumes; determining at least part of said target speaker settings by executing an evolutionary algorithm, comprising: generating a population of speaker settings, preferably said speaker settings including at least one of: speaker location information, speaker phase delay information and/or speaker amplitude information; and, optimizing said population of speaker settings on the basis of said one or more sound pressure values associated with one or more sound spots.

IPC 8 full level

**H04R 27/00** (2006.01)

CPC (source: EP)

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Cited by

US9811721B2; US10048765B2; US10444854B2; US11561621B2; WO2023281899A1

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