

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 A1 20131009 (EN)

Application
EP 12163054 A 20120403

Priority
EP 12163054 A 20120403

Abstract (en)
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)
H04R 27/00 (2013.01)

Citation (applicant)
• US 2009144036 A1 20090604 - JORGENSEN MORTEN [US], et al
• US 7206415 B2 20070417 - MONKS MICHAEL C [US], et al

Citation (search report)
• [X] US 2010305725 A1 20101202 - BRANNMARK LARS-JOHAN [SE], et al
• [A] EP 1205863 A1 20020515 - HONDA R & D EUROP DEUTSCHLAND [DE]
• [A] US 2003007648 A1 20030109 - CURRELL CHRISTOPHER [US]
• [A] US 2005220309 A1 20051006 - HIRATA MIKIKO [JP], et al

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US9811721B2; US10048765B2; US10444854B2; US11561621B2; WO2023281899A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA ME

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