Title (en)
SOUND SPATIALISATION WITH REVERBERATION, OPTIMISED IN TERMS OF COMPLEXITY

Title (de)
KOMPLEXITÄTSOPTIMIERTE KLANGVERRÄUMLICHUNG MIT NACHHALL

Title (fr)
SPATIALISATION SONORE AVEC EFFET DE SALLE, OPTIMISEE EN COMPLEXITE

Publication
EP 3058564 B1 20230726 (FR)

Application
EP 14796814 A 20141014

Priority
• FR 1360185 A 20131018
• FR 2014052617 W 20141014

Abstract (en)
[origin: WO2015055946A1] The invention relates to a sound spatialisation, with the application of at least one transfer function with reverberation to at least one sound signal. This application amounts to multiplying, in the spectral range, spectral components of the sound signal by the spectral components of a filter corresponding to the transfer function, each spectral component of the filter having a temporal evolution in a time-frequency representation. In particular, the spectral components of the filter are especially ignored, for the above-mentioned multiplications of components, beyond a threshold frequency (Fc d(l), Fc g(l), Fcd(2), Fc g(2)) and after at least a given instant (m=l, m=2) in said time-frequency representation.

IPC 8 full level
G10K 15/12 (2006.01); **H04S 1/00** (2006.01); **H04S 3/00** (2006.01); **H04S 7/00** (2006.01)

CPC (source: EP KR US)
G10K 15/12 (2013.01 - EP KR US); **G10L 19/008** (2013.01 - US); **H04S 7/306** (2013.01 - EP KR US); **H04S 7/307** (2013.01 - US); H04S 2400/01 (2013.01 - EP KR US); H04S 2420/01 (2013.01 - EP KR US); H04S 2420/07 (2013.01 - EP KR US)

Citation (examination)
• US 7835535 B1 20101116 - TRAUTMANN STEVEN D [JP], et al
• EP 2840811 A1 20150225 - FRAUNHOFER GES FORSCHUNG [DE]

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

DOCDB simple family (publication)
WO 2015055946 A1 20150423; CN 105706162 A 20160622; CN 105706162 B 20190611; EP 3058564 A1 20160824; EP 3058564 B1 20230726; EP 4184505 A1 20230524; EP 4184505 B1 20240228; ES 2959534 T3 20240226; ES 2982054 T3 20241014; FR 3012247 A1 20150424; JP 2016537866 A 20161201; JP 6518661 B2 20190522; KR 102156650 B1 20200916; KR 20160073394 A 20160624; US 2016269850 A1 20160915; US 9641953 B2 20170502

DOCDB simple family (application)
FR 2014052617 W 20141014; CN 201480060448 A 20141014; EP 14796814 A 20141014; EP 22211949 A 20141014; ES 14796814 T 20141014; ES 22211949 T 20141014; FR 1360185 A 20131018; JP 2016523910 A 20141014; KR 20167012795 A 20141014; US 201415029458 A 20141014