

Title (en)  
METHOD FOR OPERATING AN ARRANGEMENT OF SOUND TRANSDUCERS ACCORDING TO THE WAVE-FIELD SYNTHESIS PRINCIPLE

Title (de)  
VERFAHREN ZUM BETREIBEN EINER ANORDNUNG AUS SCHALLWANDLERN NACH DEM PRINZIP DER WELLENFELDSYNTHESE

Title (fr)  
PROCÉDÉ POUR FAIRE FONCTIONNER UN RÉSEAU DE TRANSDUCTEURS ÉLECTROACOUSTIQUES À SYNTHÈSE DE CHAMP D'ONDES

Publication  
**EP 3058762 B1 20201104 (DE)**

Application  
**EP 14806713 A 20140911**

Priority

- DE 102013013378 A 20130810
- IB 2014001814 W 20140911

Abstract (en)  
[origin: WO2015022579A2] The present invention relates to a method and a device for operating an arrangement of sound transducers according to the wave-field synthesis principle, characterized in that, in order to supply an extended audience region with the same signal, the same signal content is generated by at least two virtual sound sources, which are arranged such that the wavefronts thereof are directed only onto a part audience area, rather than generating only a single beam extending over the entire audience area. The wavefronts of the distributed virtual sound sources add up vectorially in the plane of the arrangement of sound transducers, whereby the effectiveness of the sound generation is increased.

IPC 8 full level  
**H04R 27/00** (2006.01)

CPC (source: EP US)  
**H04R 3/14** (2013.01 - US); **H04R 27/00** (2013.01 - EP US); **H04R 1/403** (2013.01 - EP US); **H04R 2201/401** (2013.01 - EP US); **H04R 2227/007** (2013.01 - US); **H04R 2430/01** (2013.01 - US); **H04S 2420/13** (2013.01 - EP US)

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)  
**DE 102013013378 A1 20150212**; DE 112014003700 A5 20160623; EP 3058762 A2 20160824; EP 3058762 B1 20201104; US 2016205474 A1 20160714; US 9843864 B2 20171212; WO 2015022579 A2 20150219; WO 2015022579 A3 20150507

DOCDB simple family (application)  
**DE 102013013378 A 20130810**; DE 112014003700 T 20140911; EP 14806713 A 20140911; IB 2014001814 W 20140911; US 201414911443 A 20140911