

Title (en)

DEVICE AND METHOD FOR RENDERING A BINAURAL AUDIO SIGNAL

Title (de)

VORRICHTUNG UND VERFAHREN ZUR WIEDERGABE EINES BINAURAL EN AUDIOSIGNALS

Title (fr)

DISPOSITIF ET PROCÉDÉ DE RESTITUTION D'UN SIGNAL AUDIO BINAURAL

Publication

EP 3912365 A1 20211124 (EN)

Application

EP 19720591 A 20190430

Priority

EP 2019060996 W 20190430

Abstract (en)

[origin: WO2020221431A1] The invention relates to the technical field of 3D sound, for instance, for virtual reality (VR) applications or surround sound. The invention proposes in particular a device and a method for rendering a binaural audio signal. The device is configured to obtain a direct component of the audio signal and a diffuse component and a Direction of Arrival (DoA) from a plurality of audio channels of the audio signal. Further, the device is configured to determine a head-related transfer function (HRTF) according to the DoA. Finally, the device is configured to filter the direct component based on the HRTF to obtain a modified direct component, and to generate the binaural audio signal based on the diffuse component and the modified direct component.

IPC 8 full level

H04S 7/00 (2006.01)

CPC (source: EP)

H04S 7/302 (2013.01); **H04S 2420/01** (2013.01); **H04S 2420/11** (2013.01)

Citation (search report)

See references of WO 2020221431A1

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2020221431 A1 20201105; EP 3912365 A1 20211124

DOCDB simple family (application)

EP 2019060996 W 20190430; EP 19720591 A 20190430