

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

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Application  
**EP 19720591 A 20190430**

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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.

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