

Title (en)

METHOD FOR THE SPATIAL SOUND REPRODUCTION OF A SOUND FIELD THAT IS AUDIBLE IN A POSITION OF A MOVING LISTENER AND SYSTEM IMPLEMENTING SUCH A METHOD

Title (de)

VERFAHREN ZUR RÄUMLICHEN SCHALLWIEDERGABE EINES SCHALLFELDES, DAS IN EINER POSITION EINES BEWEGTEN ZUHÖRERS HÖRBAR IST, UND SYSTEM ZUR DURCHFÜHRUNG SOLCH EINES VERFAHRENS

Title (fr)

PROCÉDÉ POUR UNE RESTITUTION SONORE SPATIALISÉE D'UN CHAMP SONORE AUDIBLE EN UNE POSITION D'UN AUDITEUR SE DÉPLAÇANT ET SYSTÈME METTANT EN OUVRE UN TEL PROCÉDÉ

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2020043979A1] A computer-assisted method for spatial sound reproduction from a network of loudspeakers (HP1, HPN) with a view to diffusing a selected sound field in a position of a listener iteratively and continuously comprises: - obtaining the current position of a listener; - determining respective acoustic transfer functions of the loudspeakers to a virtual microphone, the position of which is dynamically defined as a function of the current position of the listener; - estimating an acoustic pressure (P) in the virtual microphone (MIC); - computing an error between said estimated acoustic pressure (P) and a target acoustic pressure (Pt); - computing and applying respective weights to the control signals (S(HP1,HPN)) of the loudspeakers (HP1,...,HPN) as a function of said error and of a weight forgetting factor, said forgetting factor being computed as a function of a movement of the listener; - computing the acoustic pressure in the current position of the listener.

IPC 8 full level

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