

Title (en)

DEVICE AND METHOD FOR CALCULATING A DISCRETE VALUE OF A COMPONENT IN A LOUDSPEAKER SIGNAL

Title (de)

VORRICHTUNG UND VERFAHREN ZUM BERECHNEN EINES DISKRETEN WERTS EINER KOMPONENTE IN EINEM LAUTSPRECHERSIGNAL

Title (fr)

DISPOSITIF ET PROCEDE DE CALCUL D'UNE VALEUR DISCRETE DANS UN SIGNAL DE HAUT-PARLEUR

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2004103022A2] The aim of the invention is to reduce Doppler artifacts in wave field synthesis due to delay changes from a first point in time to a second point in time. For this purpose, the delay for the first point in time and then the delay for the second point in time is determined (10). A value of an audio signal delayed by the first delay for the actual point in time and a value for the audio signal delayed by the second delay for the actual point in time is determined (14). The first value is weighted with a first weighting coefficient and the mean is taken from the second value by means of a second weighting coefficient (22). The two weighted values are added up (26) in order to obtain a discrete value for the actual point in time of the component in a loudspeaker signal for a loudspeaker due to a virtual source. In this manner, a fade-over from one delay to a subsequent delay can be achieved when a delay present at a later point in time is known, thereby reducing undesired Doppler artifacts.

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IPC 8 full level

H04S 3/00 (2006.01); **H04R 7/00** (2006.01)

CPC (source: EP KR US)

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