

Title (en)  
REVERBERATION REDUCTION FOR SIGNALS IN A BINAURAL HEARING APPARATUS

Title (de)  
ENTHALLEN VON SIGNALEN EINER BINAURAL EN HÖRVORRICHTUNG

Title (fr)  
SUPPRESSION DE LA RÉVERBÉRATION DE SIGNAUX D'UN DISPOSITIF AUDITIF BIAURICULAIRE

Publication  
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Application  
**EP 10739560 A 20100727**

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Abstract (en)  
[origin: WO2011110239A1] The aim is to propose a more efficient method for reducing reverberation in binaural hearing systems. This has been done by developing a method for obtaining a reduced-reverberation, binaural output signal ( $S_l$  (? ,  $\mu$ ),  $S_r$  (? ,  $\mu$ ) for a binaural hearing apparatus. First of all, a left input signal ( $X_l$  (? ,  $\mu$ )) and a right input signal ( $X_r$  (? ,  $\mu$ )) are provided. The two input signals are combined to form a reference signal ( $X_{ref}$  (? ,  $\mu$ )). The reference signal is used to ascertain spectral weights ( $G_{late}$  (? ,  $\mu$ )), or these weights are provided in another way, in order to use them to reduce late reverberation. To this end, the two input signals have the spectral weight applied to them. Furthermore, a coherency (17) for signal components of the weighted input signals ( $S_l$  (? ,  $\mu$ ),  $S_r$  (? ,  $\mu$ )) is ascertained. Noncoherent signal components of both weighted input signals are then attenuated in order to reduce early reverberation.

IPC 8 full level  
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Citation (search report)  
See references of WO 2011110239A1

Citation (examination)  
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