

Title (en)

METHOD FOR REDUCING PARASITIC VIBRATIONS OF A LOUDSPEAKER ENVIRONMENT AND ASSOCIATED PROCESSING DEVICE

Title (de)

VERFAHREN ZUR VERRINGERUNG PARASITÄRER SCHWINGUNGEN EINER LAUTSPRECHERUMGEBUNG SOWIE  
VERARBEITUNGSVORRICHTUNG DAFÜR

Title (fr)

PROCEDE DE REDUCTION DE VIBRATIONS PARASITES D'UN ENVIRONNEMENT D'UN HAUT-PARLEUR ET DISPOSITIF DE TRAITEMENT  
ASSOCIE

Publication

**EP 2777299 A1 20140917 (FR)**

Application

**EP 12783212 A 20121106**

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Abstract (en)

[origin: WO2013068359A1] The invention essentially relates to a method for reducing parasitic vibrations of a loudspeaker environment while maintaining the perception of the low frequencies of an electric sound signal (S1), called the original sound signal, intended to be broadcast after processing by said loudspeaker (HP) having a cut-off frequency (fc), characterised in that it comprises the following steps: -identifying a frequency band that causes the loudspeaker (HP) to vibrate, called the vibration frequency, -isolating a low frequency band (S2) of the original sound signal (S1) having a frequency close to the cut-off frequency (fc) of the loudspeaker (HP) as the upper limit, -generating at least one harmonic signal (S3) from the isolated low frequency band (S2) of the original sound signal (S3), -combining the original sound signal (S2) and the harmonic signal (S4) to obtain a recombined signal (S6), -removing the vibration frequency band from the recombined signal (S6) to obtain a signal that can be broadcast by the loudspeaker (HP).

IPC 8 full level

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See references of WO 2013068359A1

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