

Title (en)
Method for interference suppression

Title (de)
Verfahren zur Interferenzunterdrückung

Title (fr)
Procédé pour supprimer l'interférence

Publication
EP 2490218 B1 20190925 (EN)

Application
EP 11155047 A 20110218

Priority
EP 11155047 A 20110218

Abstract (en)
[origin: EP2490218A1] In a method for interference suppression for a communication system as an indoor communication system or a handsfree telephony system or an automatic speech recognition system, at least one loudspeaker and at least one microphone are provided, particularly in a vehicle. A test signal is sent for determining system characteristics on the base of the test signal received by a microphone. The interference may be an ICC-system feedback component or the feedback signal of the audio component. The system characteristics detected by the test signal are used to determine interference model parameters in the form of frequency dependent coupling factors and frequency dependent decay factors and frequency dependent delay factors. Then, an estimated interference signal is formed on the base of the sub-band coupling factor times the magnitude square of a sub-band delayed loudspeaker signal plus a last interference signal level times a sub-band decay. The estimated interference signal is used to suppress the interference signal accordingly.

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G10L 21/0208 (2013.01)

CPC (source: EP)
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Cited by
CN104601258A; CN112309364A; CN113611276A; JP2017146207A; US10002601B2; WO2017000813A1

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