

Title (en)

A method of superimposing spatial auditory cues on externally picked-up microphone signals

Title (de)

Verfahren zum Überlagern von räumlichen auditorischen Merkmalen auf Signalen eines externen Mikrofon

Title (fr)

Procédé de superposition de repères sonores spatiaux sur des signaux de microphone captés à l'extérieur

Publication

EP 3041270 A1 20160706 (EN)

Application

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Priority

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Abstract (en)

The present invention relates to a method of superimposing spatial auditory cues to an externally picked-up sound signal (s E (t)) in a hearing instrument (107, 109). The method comprises steps of a generating an external microphone signal (s E (t)) by an external microphone arrangement (105) and transmitting the external microphone signal (s E (t)) to a wireless receiver of a first hearing instrument (107) via a first wireless communication link (104). Further steps of the methodology comprise determining response characteristics of a first spatial synthesis filter (g L (t)) by correlating the external microphone signal (s E (t)) and a first hearing aid microphone signal (s L (t)) of the first hearing instrument (107) and filtering the external microphone signal (s E (t)) by the first spatial synthesis filter (g L (t)) to produce a first synthesized microphone signal (y L (t)) comprising first spatial auditory cues.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [XAI] US 2013094683 A1 20130418 - HANSEN PETER S K [DK]
- [XI] US 2012063610 A1 20120315 - KAULBERG THOMAS [DK], et al

Cited by

CN112911480A; EP3468228A1; US11438713B2

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