

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 B1 20190515 (EN)

Application

EP 14200593 A 20141230

Priority

EP 14200593 A 20141230

Abstract (en)

[origin: EP3041270A1] 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)

H04R 25/407 (2013.01); **H04R 25/552** (2013.01); **H04R 25/554** (2013.01); **H04R 25/43** (2013.01)

Citation (examination)

- US 2003059076 A1 20030327 - MARTIN RAIMUND [DE]
- US 2008101636 A1 20080501 - CHALUPPER JOSEF [DE]

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CN112911480A; EP3468228A1; US11438713B2

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