

Title (en)
Improved localization with feedback

Title (de)
Verbesserte Lokalisierung mit Feedback

Title (fr)
Localisation améliorée avec rétroaction

Publication
EP 2750412 A1 20140702 (EN)

Application
EP 12199761 A 20121228

Priority
EP 12199761 A 20121228

Abstract (en)
A hearing aid includes: a cue filter having an input that is provided with an output from the BTE sound input transducer; an adaptive feedback canceller configured to provide an output modelling a feedback path between the output transducer and the BTE sound input transducer, wherein the output modelling the feedback path is provided to a subtractor for subtraction of the output modelling the feedback path from the output of the BTE sound input transducer to obtain a difference, the subtractor outputting the difference to the cue filter; and a feedback and cue controller connected to the adaptive feedback canceller and the cue filter, wherein the feedback and cue controller is configured to control the cue filter to reduce a difference between an output of the ITE microphone and a combined output that is obtained using at least the cue filter.

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP US)
H04R 25/405 (2013.01 - EP US); **H04R 25/453** (2013.01 - EP); **H04R 25/407** (2013.01 - EP); **H04R 2225/0216** (2019.04 - EP US); **H04R 2225/025** (2013.01 - EP); **H04S 2420/01** (2013.01 - EP)

Citation (search report)
• [A] US 2009097681 A1 20090416 - PURIA SUNIL [US], et al
• [A] US 2010303267 A1 20101202 - PEDERSEN MICHAEL SYSKIND [DK], et al
• [A] US 2010092016 A1 20100415 - IWANO KENJI [JP], et al
• [A] US 2012308057 A1 20121206 - EDWARDS BRENT [US], et al

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EP3038381A1; US9774960B2; EP2908557A1; EP3101917A1; EP3116240B1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2750412 A1 20140702; EP 2750412 B1 20160629; DK 2750412 T3 20160905

DOCDB simple family (application)
EP 12199761 A 20121228; DK 12199761 T 20121228