

Title (en)
A HEARING AID WITH SIGNAL ENHANCEMENT

Title (de)
HÖRGERÄT MIT SIGNALERWEITERUNG

Title (fr)
PROTHÈSE AUDITIVE AVEC AMÉLIORATION DE SIGNAL

Publication
EP 3059979 B1 20200304 (EN)

Application
EP 16164585 A 20111230

Priority
• EP 16164585 A 20111230
• EP 11196247 A 20111230

Abstract (en)
[origin: EP2611215A1] A new binaural hearing aid system is provided that compensates for a hearing impaired user's loss of ability to understand speech in noise using a new method comprising the steps of providing at least one microphone audio signal (18, 20) in response to sound, and providing an estimate of one of a target signal and a noise signal (30) based on the at least one audio signal, phase shifting the estimate of one of the target signal (26) and the noise signal (30), and in which the phase shifted estimate of one of the target signal (26) and the noise signal (30) has substantially providing a phase shifted signal representing the at least one microphone audio signal substituted the respective original one of the target signal (26) and the noise signal (30), and transmitting a signal representing the phase shifted signal towards one of the eardrums of a user of the binaural hearing aid system (10), and transmitting a signal representing the at least one microphone audio signal towards the other one of the eardrums of the user.

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP)
H04R 25/552 (2013.01); **H04R 25/407** (2013.01); **H04R 2225/43** (2013.01)

Citation (opposition)
Opponent : Oticon A/S
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• WO 0203749 A2 20020110 - GN RESOUND CORP [US]
• EP 1879426 A2 20080116 - STARKEY LAB INC [US]
• US 2005141731 A1 20050630 - HAMALAINEN MATTI S [FI]
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• US 2010135500 A1 20100603 - DERLETH RALPH PETER [CH], et al
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• LU ET AL.: "Binaural masking level differences in actual and simulated bilateral cochlear implant listeners", THE JOURNAL OF THE ACOUSTICAL SOCIETY OF AMERICA, vol. 127, no. 3, March 2010 (2010-03-01), pages 1479 - 1490, XP012135290
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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

DOCDB simple family (publication)
EP 2611215 A1 20130703; EP 2611215 B1 20160420; DK 2611215 T3 20160704; DK 3059979 T3 20200608; EP 3059979 A1 20160824; EP 3059979 B1 20200304

DOCDB simple family (application)
EP 11196247 A 20111230; DK 11196247 T 20111230; DK 16164585 T 20111230; EP 16164585 A 20111230