

Title (en)
Hearing aid and/or tinnitus treatment device

Title (de)
Hörhilfe- und/oder Tinnitus-Therapie-Gerät

Title (fr)
Appareil d'aide auditive et/ou de traitement d'acouphène

Publication
EP 2421282 B1 20161012 (DE)

Application
EP 11176905 A 20110809

Priority
DE 102010039589 A 20100820

Abstract (en)
[origin: EP2421282A2] The method involves detecting tinnitus frequency and/or tinnitus frequency spectrum of a user. An acoustic output signal in which the tinnitus frequency and/or the tinnitus frequency spectrum are suppressed by adjusting a filter unit with a filter bank (7), is generated as a function of tinnitus frequency and/or tinnitus frequency spectrum. A tinnitus masking signal in which tinnitus frequency and/or tinnitus frequency spectrum are suppressed, is generated. An independent claim is included for hearing aid and/or tinnitus therapy device.

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP US)
H04R 25/505 (2013.01 - EP US); **H04R 25/75** (2013.01 - EP US); **H04R 2225/43** (2013.01 - EP US)

Citation (opposition)
Opponent : Oticon A/S, Widex A/S and GN Hearing A/S
• EP 2124482 A2 20091125 - SIEMENS MEDICAL INSTR PTE LTD [SG]
• EP 0985328 B1 20060308 - EMMA MIXED SIGNAL CV [NL]
• US 6047074 A 20000404 - ZOELS FRED [DE], et al
• WILSON ET AL.: "Listening to filtered music as a treatment option for tinnitus: a review", MUSIC PERCEPT, vol. 27, 1 April 2010 (2010-04-01), pages 327 - 330, XP055400053
• OKAMOTO ET AL.: "Listening to tailor-made notched music reduces tinnitus loudness and tinnitus-related auditory cortex activity", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCE, vol. 107, no. 3, 19 January 2010 (2010-01-19), pages 1207 - 1210, XP002668221

Cited by
US10805749B2; EP3136755B1; EP3136755B2

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 2421282 A2 20120222; **EP 2421282 A3 20130306**; **EP 2421282 B1 20161012**; DE 102010039589 A1 20120223; DK 2421282 T3 20170130; US 2012046713 A1 20120223

DOCDB simple family (application)
EP 11176905 A 20110809; DE 102010039589 A 20100820; DK 11176905 T 20110809; US 201113214448 A 20110822