

Title (en)
IN EAR HEARING DEVICE WITH A HOUSING ENCLOSING ACOUSTICALLY COUPLED VOLUME PORTIONS

Title (de)
OHRHÖRGERÄT MIT EINEM GEHÄUSE MIT AKUSTISCH GEKOPPELTEN VOLUMENABSCHNITTEN

Title (fr)
DISPOSITIF AUDITIF INTRA-AURICULAIRE DOTÉ D'UN BOÎTIER RENFERMANT DES PARTIES DE VOLUME COUPLÉES ACOUSTIQUEMENT

Publication
EP 3849206 A1 20210714 (EN)

Application
EP 20151194 A 20200110

Priority
EP 20151194 A 20200110

Abstract (en)
The disclosure relates to a hearing device comprising a housing (111) configured to be at least partially inserted into an ear canal and enclosing an inner volume (116) separated into a first volume portion (117, 118) and a second volume portion (117, 118) by a partition including an acoustic transducer (151, 251), wherein a sound outlet (122) and an acoustic port (135, 435, 615, 635, 735, 835, 911, 927, 949, 959, 970) is provided at the housing (111). To allow modification of acoustic properties inside the inner volume (116), the disclosure proposes a first resistive member (131, 171, 221, 371, 471, 571, 671, 771, 871, 901, 905, 926, 948, 955, 975) and a second resistive member (131, 171, 221, 371, 471, 571, 671, 771, 871, 901, 905, 926, 948, 955, 975), each configured to attenuate sound waves between a first terminal and a second terminal, wherein the first terminal of the first resistive member is acoustically connected to the acoustic transducer (151, 251) via the first volume portion (117, 118), and the first terminal of the second resistive member is acoustically connected to the acoustic transducer (151, 251) via the second volume portion (117, 118), and wherein the partition (115, 175, 215) includes the first resistive member placed in parallel to the acoustic transducer (151, 251).

IPC 8 full level
H04R 1/10 (2006.01); **H04R 1/28** (2006.01)

CPC (source: EP)
H04R 1/1016 (2013.01); **H04R 1/2849** (2013.01); **H04R 1/2857** (2013.01); **H04R 1/288** (2013.01)

Citation (applicant)
EP 3177033 A1 20170607 - BOSE CORP [US]

Citation (search report)
• [XAI] US 2017223443 A1 20170803 - SILVESTRI RYAN C [US], et al
• [XAI] GB 2493206 A 20130130 - INCUS LAB LTD [GB]

Cited by
EP4231662A1; US2024080603A1

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 3849206 A1 20210714; EP 3849206 B1 20231101

DOCDB simple family (application)
EP 20151194 A 20200110