

Title (en)

Hearing device with equalisation filter in a filterbank system

Title (de)

Hörvorrichtung mit einem Entzerrungsfilter im Filterbank-System

Title (fr)

Dispositif auditif avec filtre égaliseur dans un système de banc de filtres

Publication

EP 2124482 B1 20171206 (DE)

Application

EP 09159399 A 20090505

Priority

DE 102008024534 A 20080521

Abstract (en)

[origin: EP2124482A2] The device has a filter bank system with a multi-layer analysis filter bank (AFB) and a multi-stage synthesis filter bank (SFB) to separate an input signal of the hearing apparatus into multiple sub-band signals by a set of filter bank channels and/or to again merge the sub-band signals. The filter bank system has an equalization filter (EQ) to compensate differences of complex frequency responses between the filter bank channels. The equalization filter compensates damping or amplification differences and group delay differences between the filter bank channels.

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: EP US)

H04R 25/505 (2013.01 - EP US); **H04R 25/407** (2013.01 - EP US); **H04R 2430/03** (2013.01 - EP US)

Citation (examination)

US 5995539 A 19991130 - MILLER WILLIAM J [US]

Cited by

EP2408220A1; DE102010026884A1; DE102010026884B4; US8948424B2; EP2421282B1

Designated contracting state (EPC)

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 SE SI SK TR

DOCDB simple family (publication)

EP 2124482 A2 20091125; EP 2124482 A3 20140625; EP 2124482 B1 20171206; DE 102008024534 A1 20091203; DK 2124482 T3 20180305; US 2009290734 A1 20091126; US 8908893 B2 20141209

DOCDB simple family (application)

EP 09159399 A 20090505; DE 102008024534 A 20080521; DK 09159399 T 20090505; US 46901409 A 20090520