Title (en)

SYSTEMS AND METHODS FOR FITTING A SOUND PROCESSING ALGORITHM IN A 2D SPACE USING INTERLINKED PARAMETERS

Title (de)

SYSTEME UND VERFAHREN ZUR ANPASSUNG EINES TONVERARBEITUNGSALGORITHMUS IN EINEM 2D-RAUM UNTER VERWENDUNG VON VERBUNDENEN PARAMETERN

Title (fr)

SYSTÈMES ET PROCÉDÉS POUR AJUSTER UN ALGORITHME DE TRAITEMENT SONORE DANS UN ESPACE 2D À L'AIDE DE PARAMÈTRES INTERLIÉS

Publication

EP 4061012 A1 20220921 (EN)

Application

EP 21165935 A 20210330

Priority

US 202117203479 A 20210316

Abstract (en)

Disclosed are systems and methods for fitting a sound personalization algorithm using a two-dimensional (2D) graphical fitting interface. A calculated set of initial digital signal processing (DSP) parameters are determined for a given sound personalization algorithm, based on a user hearing profile. The initial DSP parameters are outputted to a 2D graphical fitting interface of an audio personalization application, wherein a first axis represents a level of coloration and a second axis represents a level of compression. A user input specifies a first 2D coordinate selected from a coordinate space presented by the 2D graphical fitting interface. A first set of refined DSP parameters is generated to apply a coloration and/or compression adjustment corresponding to the first 2D coordinate. The given sound personalization algorithm is parameterized with the first set of refined DSP parameters.

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: EP)

H04R 25/70 (2013.01); H04R 25/356 (2013.01); H04R 2225/55 (2013.01)

Citation (applicant)

- US 10199047 B1 20190205 - CLARK NICHOLAS R [GB]
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Citation (search report)

- [IA] US 2013051573 A1 20130228 - NISHIZAKI MAKOTO [JP], et al
- [A] DAVID CLARK: "Progress in perceptual transfer function measurement - Tonal Balance", AES, 60 EAST 42ND STREET, ROOM 2520 NEW YORK 10165-2520, USA, 12 May 2001 (2001-05-12) - 15 May 2001 (2001-05-15), AES 110th convention Amsterdam, XP040371696

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