

Title (en)

ADJUSTING A FREQUENCY DEPENDENT GAIN OF A HEARING DEVICE

Title (de)

ANPASSUNG EINES FREQUENZABHÄNGIGEN VERSTÄRKERS EINES HÖRGERÄTS

Title (fr)

RÉGLAGE D'UN GAIN DÉPENDANT DE LA FRÉQUENCE D'UN DISPOSITIF AUDITIF

Publication

**EP 3783921 B1 20230419 (EN)**

Application

**EP 19193289 A 20190823**

Priority

EP 19193289 A 20190823

Abstract (en)

[origin: EP3783921A1] A method for adjusting a frequency dependent gain of a hearing device (10) comprises: receiving an amplification level (38) selected by a user of the hearing device (10); selecting offset gain values (40) for frequencies in a bass range (34) based on the amplification level (38); reading fitting gain values (30) for the frequencies stored in the hearing device (10), wherein the fitting gain values (30) have been selected to compensate a hearing loss of the user; determining direct sound indicator values (32) for the frequencies, wherein an direct sound indicator value (32) for a frequency specifies a level of direct sound in front of an ear drum in an ear canal of the user at that frequency; setting an adjusted gain value (36) in each frequency depending on the offset gain value (40), the fitting gain value (30) and the direct sound indicator value (32); applying the adjusted gain values (36) to an amplifier (20) of the hearing device (10), such that a sound signal in each frequency is amplified with the corresponding adjusted gain value (36).

IPC 8 full level

**H04R 25/00** (2006.01)

CPC (source: EP)

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Cited by

EP4117308A1; WO2023280359A1

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