

Title (en)

COMPENSATION AND AUTOMATIC GAIN CONTROL IN ACTIVE NOISE REDUCTION DEVICES

Title (de)

KOMPENSATION UND AUTOMATISCHE VERSTÄRKUNGSREGELUNG BEI AKTIVEN RAUSCHMINDERUNGSVORRICHTUNGEN

Title (fr)

COMMANDE AUTOMATIQUE DE COMPENSATION ET DE GAIN DE DISPOSITIFS DE RÉDUCTION ACTIVE DE BRUIT

Publication

EP 3602538 A2 20200205 (EN)

Application

EP 18718353 A 20180329

Priority

- US 201715473926 A 20170330
- US 201715473889 A 20170330
- US 201715473939 A 20170330
- US 2018025196 W 20180329

Abstract (en)

[origin: WO2018183714A2] The technology described in this document can be embodied in a method that includes receiving an input signal representing audio captured by a microphone of an active noise reduction (ANR) headphone, and processing, by a first compensator, a first frequency range of the input signal to generate a first signal for an acoustic transducer of the ANR headphone. The method also includes processing, by a second compensator disposed in parallel to the first compensator, a second frequency range of the input signal to generate a second signal for the acoustic transducer. The first frequency range includes frequencies higher than the frequencies in the second frequency range. The method also includes detecting, by one or more processing devices, that the second signal satisfies a threshold condition, and attenuating the second signal responsive to determining that the second signal satisfies the threshold condition.

IPC 8 full level

G10K 11/178 (2006.01); **H04R 1/10** (2006.01)

CPC (source: CN EP)

G10K 11/17827 (2018.01 - CN EP); **G10K 11/1787** (2018.01 - CN); **G10K 11/17881** (2018.01 - EP); **G10K 11/17885** (2018.01 - EP); **H04R 1/1083** (2013.01 - CN EP); **G10K 2210/1081** (2013.01 - CN EP); **H04R 1/1041** (2013.01 - EP); **H04R 3/005** (2013.01 - EP); **H04R 2410/05** (2013.01 - EP); **H04R 2460/01** (2013.01 - EP)

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)

WO 2018183714 A2 20181004; **WO 2018183714 A3 20181122**; CN 110720121 A 20200121; CN 110720121 B 20240430; CN 116741138 A 20230912; EP 3602538 A2 20200205; EP 3602538 B1 20240605; EP 3618058 A1 20200304; EP 3618058 B1 20220817; EP 3627493 A1 20200325; EP 3627493 B1 20240515

DOCDB simple family (application)

US 2018025196 W 20180329; CN 201880036193 A 20180329; CN 202310860272 A 20180329; EP 18718353 A 20180329; EP 19201902 A 20180329; EP 19201934 A 20180329