

Title (en)

ACTIVE LEAKAGE ADAPTION FOR WEARABLE AUDIO DEVICES

Title (de)

AKTIVE LECKAGEANPASSUNG FÜR AM KÖRPER TRAGBARE AUDIOVORRICHTUNGEN

Title (fr)

ADAPTATION DE FUITE ACTIVE POUR DISPOSITIFS AUDIO PORTABLES

Publication

EP 4429269 A1 20240911 (EN)

Application

EP 24162617 A 20240311

Priority

- DK PA202300218 A 20230310
- US 202318331590 A 20230608

Abstract (en)

A wearable audio device can include at least one speaker; a first sensor configured to sense sound related to the at least one speaker and provide a first sensor signal; a second sensor configured to sense sound external to the wearable device and provide a second sensor signal; active noise cancellation (ANC) circuitry configured to provide at least a third signal and fourth signal, wherein the third signal is a music compensated first sensor signal and the fourth signal is an ANC signal; at least one active vent; and at least one processor configured to: receive the first sensor signal, the second sensor signal, the third signal and the fourth signal to determine whether a trigger threshold is met, and if the trigger threshold is met, send a control signal to the at least one active vent to cause the at least one active vent to open or close.

IPC 8 full level

H04R 1/10 (2006.01); **G10K 11/178** (2006.01); **H04R 1/28** (2006.01)

CPC (source: EP)

G10K 11/17823 (2018.01); **G10K 11/17873** (2018.01); **G10K 11/17881** (2018.01); **G10K 11/17885** (2018.01); **H04R 1/1083** (2013.01); **H04R 1/2823** (2013.01); **G10K 2210/1081** (2013.01); **H04R 1/1016** (2013.01); **H04R 1/1041** (2013.01); **H04R 2460/01** (2013.01); **H04R 2460/11** (2013.01)

Citation (search report)

- [X] US 2014169579 A1 20140619 - AZMI YACINE [US]
- [A] CN 113840202 A 20211224 - GUANGDONG TRANSTEK MEDICAL ELECTRONICS CO LTD, et al

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

GE KH MA MD TN

DOCDB simple family (publication)

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