

Title (en)
CARTILAGE CONDUCTION AUDIO SYSTEM FOR EYEWEAR DEVICES

Title (de)
KNORPELLEITERAUDIOSYSTEM FÜR BRILLENVORRICHTUNGEN

Title (fr)
SYSTÈME AUDIO DE CONDUCTION DU CARTILAGE POUR DISPOSITIFS DE LUNETTERIE

Publication
EP 3445066 B1 20210616 (EN)

Application
EP 18189104 A 20180815

Priority
• US 201715680836 A 20170818
• US 2018046046 W 20180809

Abstract (en)
[origin: EP3445066A1] An audio system includes a transducer assembly, an audio sensor, and a controller. The transducer assembly is coupled to a back of an auricle of an ear of the user. The transducer assembly vibrates the auricle over a frequency range to cause the auricle to create an acoustic pressure wave in accordance with vibration instructions. The acoustic sensor detects the acoustic pressure wave at an entrance of the ear of the user. The controller dynamically adjusts a frequency response model based in part on the detected acoustic pressure wave, updates the vibration instructions using the adjusted frequency response model, and provides the updated vibration instructions to the transducer assembly.

IPC 8 full level
H04R 1/26 (2006.01); **H04R 1/02** (2006.01); **H04R 1/10** (2006.01); **H04R 7/12** (2006.01); **H04R 29/00** (2006.01); **H04S 7/00** (2006.01)

CPC (source: EP)
H04R 1/26 (2013.01); **H04R 1/028** (2013.01); **H04R 1/1091** (2013.01); **H04R 7/12** (2013.01); **H04R 29/001** (2013.01); **H04R 2460/13** (2013.01); **H04S 7/301** (2013.01)

Cited by
CN114270876A; CN113473347A; EP4243441A4; US10658995B1; WO2019212713A1; US11678103B2; US11681492B2; WO2021061291A1; US10757501B2; US11317188B2; US11561757B2; US11743628B2

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

DOCDB simple family (publication)
EP 3445066 A1 20190220; EP 3445066 B1 20210616

DOCDB simple family (application)
EP 18189104 A 20180815