

Title (en)

DEVICE AND METHOD FOR DETECTING REMOVAL OF AN IN-THE-EAR HEADPHONE FROM A USER'S EAR

Title (de)

VORRICHTUNG UND VERFAHREN ZUR DETEKTION DER ENTFERNUNG EINES IM-OHR-KOPFHÖRERS VOM OHR EINES BENUTZERS

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR DÉTECTER LE RETRAIT D'UN CASQUE D'ÉCOUTE DE L'OREILLE D'UN UTILISATEUR

Publication

**EP 3499910 A1 20190619 (EN)**

Application

**EP 17207463 A 20171214**

Priority

EP 17207463 A 20171214

Abstract (en)

A user device (102) can detect an ear-fitting headphone (100) being removed from an ear of a user wearing the ear-fitting headphone (100) by determining that a capacitance of a capacitive sensor (106) of the ear-fitting headphone (100) has changed. The user device (102) can notify the user that the ear-fitting headphone (100) has been removed from the ear if it is determined that the capacitance of the capacitive sensor (106) has changed over a time period by an amount greater than a threshold.

IPC 8 full level

**H04R 1/10** (2006.01)

CPC (source: EP)

**H04R 1/1016** (2013.01); **H04R 2420/07** (2013.01)

Citation (search report)

- [IA] WO 2012167234 A1 20121206 - CEDARS SINAI MEDICAL CENTER [US], et al
- [A] WO 2010046504 A2 20100429 - PHONAK AG [CH], et al
- [A] EP 3151584 A2 20170405 - APPLE INC [US]

Cited by

CN114745626A; EP4210345A1; EP4047946A1; US11950041B2; WO2023274080A1

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)

**EP 3499910 A1 20190619; EP 3499910 B1 20221228**; TR 201722638 A2 20190722

DOCDB simple family (application)

**EP 17207463 A 20171214**; TR 201722638 A 20171228