

Title (en)

SYSTEMS AND METHODS FOR DELIVERING BONE CONDUCTION STIMULI TO AND FOR MEASURING GRAVITATION RECEPTOR FUNCTIONS OF THE INNER EAR

Title (de)

SYSTEM UND VERFAHREN ZUR ABGABE VON KNOCHENLEITUNGSREIZEN UND ZUR MESSUNG DER GRAVITATIONSREZEPTORFUNKTIONEN DES INNENOHRES

Title (fr)

SYSTÈMES ET PROCÉDÉS POUR APPLIQUER DES STIMULI PAR CONDUCTION OSSEUSE ET POUR MESURER LES FONCTIONS DES RÉCEPTEURS GRAVITATIONNELS DE L'OREILLE INTERNE

Publication

**EP 3307161 A1 20180418 (EN)**

Application

**EP 15895137 A 20151207**

Priority

- US 201514738395 A 20150612
- US 2015064333 W 20151207

Abstract (en)

[origin: WO2016200432A1] Disclosed herein are apparatus and methods for delivering bone conduction stimuli for measuring the gravitation receptor functions of the inner ear. In some embodiments, a system may include (i) an impactor operatively linked to a guide disposed within a housing and (ii) an electrically driven actuator enclosed within the housing. The electrically driven actuator may be configured to cause the impactor to (i) travel to a striking point to deliver a mechanical bone conduction stimulus for transmission to a skull bone and (ii) controllably decelerate prior to the instance of stimuli delivery. The system may also include an oculometric response monitoring system including a video camera for capturing video of motion of one or more eyes of the patient.

IPC 8 full level

**A61B 5/12** (2006.01); **A61B 3/113** (2006.01); **A61B 3/14** (2006.01); **A61B 5/00** (2006.01)

CPC (source: EP)

**A61B 3/113** (2013.01); **A61B 5/0051** (2013.01); **A61B 5/0057** (2013.01); **A61B 5/4023** (2013.01)

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 2016200432 A1 20161215**; EP 3307161 A1 20180418; EP 3307161 A4 20190109; HK 1253951 A1 20190705

DOCDB simple family (application)

**US 2015064333 W 20151207**; EP 15895137 A 20151207; HK 18113102 A 20181012