

Title (en)

AN OCCLUSION CONTROL SYSTEM FOR A HEARING INSTRUMENT AND A HEARING INSTRUMENT

Title (de)

OKKLUSIONSKONTROLLSYSTEM FÜR EIN HÖRGERÄT SOWIE EIN HÖRGERÄT

Title (fr)

SYSTÈME DE CONTRÔLE D'OCCLUSION POUR APPAREIL AUDITIF ET INSTRUMENT AUDITIF

Publication

EP 3413586 A1 20181212 (EN)

Application

EP 18169413 A 20180426

Priority

- US 201715618996 A 20170609
- DK PA201770606 A 20170814

Abstract (en)

An apparatus for a hearing instrument, the hearing instrument being configured to be at least partially placed in an ear canal of a wearer of the hearing instrument, the apparatus comprising: a sealing element configured to seal off the ear canal when the hearing instrument with the apparatus is at least partially positioned in the ear canal, wherein operation of the sealing element is controlled by an electric control signal, the sealing element being at least partially made from an electroactive material, wherein an acoustic impedance of the electroactive material of the sealing element varies as a function of an applied electric field, the applied electric field being based on a characteristic of the electric control signal.

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: CN EP US)

H04R 25/456 (2013.01 - EP US); **H04R 25/50** (2013.01 - CN); **H04R 25/30** (2013.01 - EP); **H04R 25/652** (2013.01 - CN EP US); **H04R 25/656** (2013.01 - EP); **H04R 2225/41** (2013.01 - EP); **H04R 2225/43** (2013.01 - CN); **H04R 2225/61** (2013.01 - CN EP US); **H04R 2460/11** (2013.01 - EP)

Citation (applicant)

EP 2405674 A2 20120111 - SIEMENS HEARING INSTR INC [US]

Citation (search report)

- [XYI] US 2010014696 A1 20100121 - BOSCHUNG PETER [CH], et al
- [Y] EP 2835987 A1 20150211 - OTICON AS [DK]
- [A] WO 2015104581 A1 20150716 - SONY CORP [JP], et al
- [A] WO 2017080585 A1 20170518 - SONOVA AG [CH]

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

EP 18169413 A 20180426; CN 201810588331 A 20180608; DK 18169413 T 20180426; JP 2018079968 A 20180418