Title (en)
AUTOMATED SENSOR POSITION DETERMINATION FOR HEARING DEVICE HOUSING

Title (de)
AUTOMATISCHE POSITIONSBESTIMMUNG FÜR DAS GEHÄUSE EINES HÖRGERÄTES

Title (fr)
DÉTERMINATION AUTOMATIQUE DE POSITION DE CAPTEUR POUR BOÎTIER DE DISPOSITIF AUDITIF

Publication
EP 4002883 A1 20220525 (EN)

Application
EP 20209319 A 20201123

Priority
EP 20209319 A 20201123

Abstract (en)
A method for determining a sensor position for a sensor on a housing (12) of a hearing device (10) comprises: receiving an ear canal model (32) of at least a part of an ear canal of a user of the hearing device (10), wherein the ear canal model (32) models at least a shape of an inner surface of the part of the ear canal; determining a housing model (38) of the housing (12) of the hearing device (10) with the ear canal model (32), wherein the housing model (38) models at least a shape of an outer surface of the housing (12) of the hearing device (10); and determining a 3D position of a sensor (24) of the hearing device (10) on the housing model (38), which 3D position (52) is determined from the ear canal model (32) and optionally a housing template, such that the sensor (24) is positioned at a predefined place in the ear canal, when the hearing device (10) is positioned in the ear canal of the user.

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP)
H04R 25/658 (2013.01); H04R 2225/77 (2013.01)

Citation (applicant)
- WO 2013149645 A1 20131010 - PHONAK AG [CH], et al
- US 2010286964 A1 20101111 - BOLTYENKOV ARTEM [US], et al
- US 2004107080 A1 20040603 - DEICHMANN NIKOLAJ [DK], et al

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- [XYI] EP 1368986 A1 20031210 - 3SHAPE APS [DK]
- [XYI] EP 1246505 A1 20021002 - WIDEX AS [DK]
- [Y] US 2014321682 A1 20141030 - KOFOD-HANSEN ANDREAS [DK], et al
- [Y] WO 2019223507 A1 20191128 - WONG MING YIP WALLACE [CN]

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)
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