

Title (en)
System and method for customizing a hearing aid device

Title (de)
System und Verfahren zur Anpassung eines Hörgeräts

Title (fr)
Système et procédé de personnalisation d'un dispositif d'aide auditive

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Abstract (en)
The present invention relates to a system and method for customizing a hearing aid device to a user. The proposed system (10) comprises means (16) for computing a three-dimensional geometric model of an external auditory canal of a user's ear based upon scan data corresponding to at least a portion of said external auditory canal. The proposed system (10) also includes means (16) for computing a three-dimensional geometric model of a hearing aid shell in-situ said computed three-dimensional geometric model of said external auditory canal and for designating a position within said three-dimensional model of said hearing aid shell. The proposed system (10) further comprises means (17) for computing an acoustic frequency response of a simulated acoustic signal incident on said designated position, said acoustic frequency response being computed taking into account said geometric model of said external auditory canal.

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Citation (search report)
• [XY] US 2006233384 A1 20061019 - BACHLER HERBERT [CH], et al
• [Y] EP 1246506 A1 20021002 - WIDEX AS [DK]
• [Y] US 2007147642 A1 20070628 - KASANMASCHEFF ROBERT [DE]
• [Y] EP 1729231 A1 20061206 - OTICON AS [DK]
• [Y] WO 2006136615 A2 20061228 - PHONAK AG [CH], et al

Cited by
US10251789B2; US11595754B1; EP2919486A1; CN102421049A; EP3149959A4; US10250964B2; US11375326B2; US10869115B2

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