

Title (en)

ITE HEARING DEVICE WITH MICROPHONE PROTECTOR ELEMENT

Title (de)

ITE-HÖRGERÄT MIT MIKROFONSCHUTZELEMENT

Title (fr)

DISPOSITIF AUDITIF INTRA-AURICULAIRE AVEC ÉLÉMENT PROTECTEUR DE MICROPHONE

Publication

EP 4412253 A1 20240807 (EN)

Application

EP 23154414 A 20230201

Priority

EP 23154414 A 20230201

Abstract (en)

There is provided an ITE hearing device comprising a housing to be worn at least in part in the ear canal of a user and including an outer portion (10) oriented towards the exterior of the user's ear when the housing is worn at least in part in the ear canal of the user, and a microphone (22) accommodated in the housing, the outer portion of the housing comprising a sound port (12) for allowing ambient sound (20) to reach the microphone. The ITE hearing device further comprises a microphone protector element (14) configured to be inserted into an outer aperture of the sound port so as to cover the sound port for inhibiting ingress of cerumen (26) towards the microphone. The sound port comprises a trough (28) for collecting residual cerumen having passed through the microphone protector element, with the microphone being laterally off-set with regard to the trough. The microphone protector element comprises an outer end portion (34) for covering the outer aperture of the sound port, an inner end portion (36) extending towards the bottom (38) of the trough so as to guide the residual cerumen into the trough, and a lateral opening (40) allowing sound to propagate towards the microphone.

IPC 8 full level

H04R 25/00 (2006.01)

CPC (source: EP)

H04R 25/654 (2013.01); **H04R 2225/025** (2013.01); **H04R 2460/17** (2013.01)

Citation (applicant)

- EP 1439733 B1 20110112 - PHONAK AG [CH]
- WO 2008154954 A1 20081224 - PHONAK AG [CH], et al
- US 2009014978 A1 20090115 - SHUMWAY DAVID L [US]
- DE 19706306 C1 19981008 - SIEMENS AUDIOLOGISCHE TECHNIK [DE]
- US 2020135127 A1 20200430 - JUNG HYEYOUNG [KR], et al
- EP 3123743 B1 20190102 - SONOVA AG [CH]

Citation (search report)

- [X] DE 10104129 A1 20020814 - GREINER E A OLAF [CH]
- [A] US 2016165334 A1 20160609 - GROSSMAN ALEX [US]
- [A] US 2016165368 A1 20160609 - STEWART JAY [US]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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DOCDB simple family (application)

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