

Title (en)
ITE HEARING DEVICE

Title (de)
ITE-HÖRGERÄT

Title (fr)
DISPOSITIF AUDITIF ITE

Publication
EP 3588980 B1 20210602 (EN)

Application
EP 18194325 A 20180913

Priority
EP 2018066952 W 20180625

Abstract (en)
[origin: EP3588980A1] There is provided an ITE hearing device comprising a housing comprising a shell and a faceplate (16); electronic components located in the housing and including at least one microphone (20), a signal processing unit (24), a loudspeaker (26), an antenna (30) and a battery (28); and a flexible main PCB (20) for electrically connecting at least the at least one microphone, the signal processing unit and the battery, wherein the loudspeaker is connected to the flexible main PCB by litz wires (44) soldered to loudspeaker pads (42) of the PCB and having a length from 2 mm to 15 mm.

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP)
H04R 25/60 (2013.01)

Citation (opposition)
Opponent : GN Hearing A/S
• EP 2393308 A1 20111207 - OTICON AS [DK]
• US 2009060242 A1 20090305 - SALTYKOV OLEG [US], et al
• WO 0203399 A1 20020110 - BELTONE ELECTRONICS CORP [US]
• US 2016381470 A1 20161229 - HENRIKSEN POUL [DK], et al
• RUARO, ANDREA: "EMC, RF, and Antenna Systems in Miniature Electronic Devices", THESIS, January 2016 (2016-01-01), XP055903180, Retrieved from the Internet <URL:https://backend.orbit.dtu.dk/ws/portaifiies/portal/122353682/thesis_ar.pdf>
• JEREMY AGNEW: "Acoustic Feedback and Other Audible Artifacts in Hearing Aids", TRENDS AMPLIF, vol. 1, no. 2, June 1996 (1996-06-01), pages 45 - 82, XP055903182, Retrieved from the Internet <URL:https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4172233>

Opponent : Oticon A/S
• EP 2615854 A1 20130717 - OTICON AS [DK]
• WO 2005020549 A1 20050303 - OTICON AS [DK], et al
• WO 2015127973 A1 20150903 - SONOVA AG [CH]
• US 2007047750 A1 20070301 - SAUER JOSEPH [DE], et al
• EP 2101512 A1 20090916 - AKG ACOUSTICS GMBH [AT]
• EP 2393308 A1 20111207 - OTICON AS [DK]
• WO 0203399 A1 20020110 - BELTONE ELECTRONICS CORP [US]
• US 2012087526 A1 20120412 - HIGGINS SIDNEY A [US], et al

Cited by
EP3860152A1; US11523235B2; WO2022126763A1

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

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