

Title (en)
USER PROGRAMMABLE HEARING ASSISTANCE DEVICE

Title (de)
BENUTZERPROGRAMMIERBARES HÖRGERÄT

Title (fr)
DISPOSITIF AUDITIF POUVANT ÊTRE PROGRAMMÉ PAR UN UTILISATEUR

Publication
EP 2140725 B1 20191023 (EN)

Application
EP 08746622 A 20080423

Priority

- US 2008061235 W 20080423
- US 73978107 A 20070425
- US 1708008 A 20080121
- US 3659408 P 20080314

Abstract (en)
[origin: WO2008134345A1] A programmable apparatus improves perception of sound by a person. The apparatus includes a processor, digital-to-analog converter, audio output section and means for generating first and second control signals. The processor executes one or more available programs for processing digital audio signals based on control signals. The digital-to-analog converter generates output analog audio signals based on the digital audio signals. The audio output section receives and amplifies the output analog audio signals, generates audible sound based thereon and provides the audible sound to the person. The memory stores programs for processing the digital audio signals. Based on an action by the person, a first control signal is generated which causes the processor to switch from one available program to another available program so that the person may cycle through and evaluate each of the available programs. Also based on an action by the person, a second control signal is generated which causes the processor to designate at least one of the available programs as a chosen program for continued use. The apparatus may include a counter that counts the number of times that power is applied to or removed from the apparatus. After a predetermined elapsed time, the processor determines which of the available programs has been used most in processing the digital audio signals, where the determination of elapsed time is based at least in part on the counter value.

IPC 8 full level
H04R 25/00 (2006.01)

CPC (source: EP US)
H04R 25/70 (2013.01 - EP US); **H04R 25/603** (2019.04 - EP US); **H04R 2225/39** (2013.01 - EP); **H04R 2225/61** (2013.01 - EP US)

Citation (examination)

- US 4972487 A 19901120 - MANGOLD STEPHAN E [SE], et al
- WO 03098970 A1 20031127 - HEARWORKS PTY LTD [AU], et al
- US 2007076909 A1 20070405 - ROECK HANS-UELI [CH], et al
- US 2003133578 A1 20030717 - DURANT ERIC A [US]
- "Versorgung und Rehabilitation mit Hörgeräten", 1 January 1997, GEORG THIEME VERLAG, ISBN: 978-3-13-106822-4, article JÜRGEN KIESSLING ET AL: "Versorgung und Rehabilitation mit Hörgeräten", pages: 100 - 111, XP055079489

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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2008134345 A1 20081106; BR PI0809710 A2 20141007; CA 2683417 A1 20081106; CA 2683417 C 20140603; CN 101711485 A 20100519; CN 101711485 B 20130612; EP 2140725 A1 20100106; EP 2140725 B1 20191023; JP 2010525755 A 20100722; JP 5329531 B2 20131030

DOCDB simple family (application)
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