

Title (en)  
HEARING DEVICE CONTROL WITH SEMANTIC CONTENT

Title (de)  
HÖRGERÄTESTEUERUNG MIT SEMANTISCHEM INHALT

Title (fr)  
COMMANDE DE DISPOSITIF AUDITIF AVEC CONTENU SÉMANTIQUE

Publication  
**EP 3624465 A1 20200318 (EN)**

Application  
**EP 18193769 A 20180911**

Priority  
EP 18193769 A 20180911

Abstract (en)  
A method for directionally amplifying a sound signal (36) of a hearing device (12) comprises: receiving the sound signal (36) from a microphone (20) of the hearing device (12); extracting a user voice signal (62) and directional sound signals (40, 46) from the sound signal (36); determining a word sequence (54) from the user voice signal (62) and each directional sound signal (40, 46); determining a semantic representation (58) from each word sequence (54); identifying conversations (34) from the semantic representations (58), wherein each conversation (34) is associated with one or more directional sound signals (40, 46) and wherein each conversation (34) is identified by clustering semantic representations (58); and processing the sound signal (36), such that directional sound signals (40, 46) associated with one of the conversations (34) are amplified.

IPC 8 full level  
**H04R 25/00** (2006.01); **G10L 21/0208** (2013.01); **G10L 21/0316** (2013.01)

CPC (source: EP)  
**H04R 25/43** (2013.01); **G10L 21/0316** (2013.01); **G10L 2021/02087** (2013.01); **H04R 25/407** (2013.01); **H04R 25/558** (2013.01)

Citation (applicant)  
US 6157727 A 20001205 - RUEDA VALENTIN CHAPERO [DE]

Citation (search report)  
• [A] US 9980042 B1 20180522 - BENATTAR BENJAMIN D [US], et al  
• [A] US 2018033428 A1 20180201 - KIM LAE-HOON [US], et al  
• [A] EP 3249944 A1 20171129 - EM-TECH CO LTD [KR]  
• [A] MOATTAR M H ET AL: "A review on speaker diarization systems and approaches", SPEECH COMMUNICATION, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 54, no. 10, 29 May 2012 (2012-05-29), pages 1065 - 1103, XP028449260, ISSN: 0167-6393, [retrieved on 20120606], DOI: 10.1016/J.SPECOM.2012.05.002

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)  
**EP 3624465 A1 20200318; EP 3624465 B1 20210317**

DOCDB simple family (application)  
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