

Title (en)
Wearable microphone array apparatus

Title (de)
Tragbare Mikrofonanordnungsvorrichtung

Title (fr)
Appareil à réseau de microphone portable

Publication
EP 2736272 A1 20140528 (EN)

Application
EP 12007887 A 20121122

Priority
EP 12007887 A 20121122

Abstract (en)
A wearable microphone array apparatus comprises at least two microphones (20) within a garment (10) and further comprises a control unit (30) within the garment (10) connected with the microphones (20) and adapted to receive signals (21) from the microphones (20). The control unit (30) is adapted to provide an output signal related to the localization of a sound source upon reception of a sound signal by at least one of the microphones (20). The apparatus comprises at least one a reproduction device (50) connected (21, 51) with the control unit (30) and adapted to reproduce a real-time signal to a user of the apparatus.

IPC 8 full level
H04R 5/02 (2006.01); **H04R 5/027** (2006.01)

CPC (source: EP)
H04R 5/02 (2013.01); **H04R 5/027** (2013.01); **H04R 2201/023** (2013.01)

Citation (applicant)
• EP 1540991 A2 20050615 - STICHTING TECH WETENSCHAPP [NL]
• EP 2350683 A2 20110803 - BBN TECHNOLOGIES [GB]
• RAVI R SHENOY: "Design of e-textiles for acoustic applications", 2003, VIRGINIA POLYTECHNIC INSTITUTE
• "Wearable phased array for sound localization and enhancement", PROCEEDINGS OF THE IEEE INTL. SYMPOSIUM ON WEARABLE COMPUTING, 2000

Citation (search report)
• [XYI] WO 03039014 A1 20030508 - INFINEON TECHNOLOGIES AG [DE], et al
• [Y] GB 2409798 A 20050713 - ROBERTSON GRAEME DONALD [GB]

Cited by
IT201800011175A1; CN107615209A; EP3298471A4; EP3211918A4; US9723403B2; WO2016185095A1; US10306359B2; US10674258B2; US11172292B2

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)
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DOCDB simple family (application)
EP 12007887 A 20121122; EP 2013003530 W 20131122