

Title (en)

AN OUTDOOR MULTI-MICROPHONE SYSTEM WITH AN INTEGRATED REMOTE ACOUSTIC CALIBRATION

Title (de)

MULTIMIKROFONSYSTEM FÜR DRAUSSEN MIT INTEGRIERTER AKUSTIKFERNKALIBRIERUNG

Title (fr)

SYSTÈME À PLUSIEURS MICROPHONES EXTÉRIEURS AVEC UN CALIBRAGE ACOUSTIQUE À DISTANCE INTÉGRÉ

Publication

EP 3223541 A1 20170927 (EN)

Application

EP 16461510 A 20160321

Priority

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Abstract (en)

An outdoor microphone comprising: a microphone assembly (110) mounted in a first housing element (101) and comprising: at least one MEMS microphone configured as a measurement microphone (114); at least one MEMS microphone configured as a reference microphone (115); an amplifier (124) for generating a loudspeaker driving signal; a microprocessor (126) configured to compare the signal level measured by the measurement microphone (114) and the reference microphone (115) and converted by a dual-channel A/D converter (123); a loudspeaker assembly (120) mounted in a second housing element (102) connected with the first housing element (101) and comprising a loudspeaker (135) for generating sound; a springy connector (131) installed inside the outdoor microphone housing elements (101, 102) for connecting the loudspeaker assembly (120) with the microphone assembly (110) to conduct the loudspeaker driving signal; wherein the first housing element (101) has openings (1011) surrounding an open sound cavity for passing ambient sound from the environment and the sound from the loudspeaker assembly (120) located at one end of the cavity to the microphone assembly (110) located at the other end of the cavity.

IPC 8 full level

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CPC (source: EP)

G10K 11/004 (2013.01); **H04R 29/004** (2013.01); **H04R 1/083** (2013.01); **H04R 2201/003** (2013.01)

Citation (applicant)

US 2014369511 A1 20141218 - SHEERIN JOHN [US], et al

Citation (search report)

- [A] JP 2010085110 A 20100415 - KENSETSU KANKYO KENKYUSHO KK, et al
- [A] GB 1069129 A 19670517 - ROHDE & SCHWARZ
- [A] EP 2869598 A1 20150506 - SVANTEK SP Z O O [PL]

Cited by

EP3544318A1; CN110784815A; CN108737947A; US10455341B2

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)

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