

Title (en)

Component with a micromechanical microphone structure and method for operating such a component

Title (de)

Bauelement mit einer mikromechanischen Mikrofonstruktur und Verfahren zum Betreiben eines solchen Bauelements

Title (fr)

Composant doté d'une structure de microphone micromécanique et procédé de fonctionnement d'un tel composant

Publication

**EP 2214421 B1 20140423 (DE)**

Application

**EP 09178802 A 20091211**

Priority

DE 102009000583 A 20090203

Abstract (en)

[origin: EP2214421A1] The component (10) has an acoustic permeable counter element (12) including a counter electrode (22). A feeding unit feeds charging voltage between a membrane (11) and the electrode. Another acoustic permeable counter element (13) is provided with a compensation electrode (33). The membrane is arranged between the electrode and the compensation electrode, and another feeding unit feeds compensation voltage between the electrodes. The compensation voltage is regulated independent of the charging voltage and voltage that is changed based on deflection between the membrane and counter electrodes. Independent claims are also included for the following: (1) a method for operating a component with a micromechanical microphone structure (2) a method for manufacturing a component with a micromechanical microphone structure.

IPC 8 full level

**H04R 19/00** (2006.01)

CPC (source: EP)

**H04R 19/005** (2013.01)

Cited by

CN103404170A; CN102665161A; ITTO20130225A1; CN103404172A; US2014037121A1; US9197967B2; CN106231519A; DE112011105008B4; DE102021206005A1; US8965008B2; US8625823B2; US9226079B2; US9233834B2; WO2012119637A1; WO2012119610A1; US9369804B2

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 MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

**EP 2214421 A1 20100804; EP 2214421 B1 20140423**; DE 102009000583 A1 20100805

DOCDB simple family (application)

**EP 09178802 A 20091211**; DE 102009000583 A 20090203