

Title (en)

Electronic attenuation of the active element of an ultrasonic sensor

Title (de)

Elektronische Dämpfung des aktiven Elements eines Ultraschallsensors

Title (fr)

Amortissement électronique de l'élément actif d'un capteur à ultrasons

Publication

**EP 2741283 A1 20140611 (DE)**

Application

**EP 12195519 A 20121204**

Priority

EP 12195519 A 20121204

Abstract (en)

The transducer (W) has an active element (1) and a damping device, where the damping device includes an impedance element. The active element includes a piezoelectric element (2) and an adjustment layer (3), where the impedance of the impedance element is power-matched to the impedance of the active element. The damping device includes a switching element i.e. FET by which the impedance element is switchable, where a control device controls the switching time of the FET. The damping device is integrated in an electronic system (10) of the transducer.

Abstract (de)

Die Erfindung betrifft einen elektroakustischen Wandler mit einem aktiven Element und einer Dämpfungseinrichtung. Um elektroakustische Wandler mit kurzer Ausschwingzeit einfach und preisgünstig herzustellen, ist erfundungsgemäß vorgesehen, dass die Dämpfungseinrichtung ein Impedanzelement aufweist.

IPC 8 full level

**G10K 11/00** (2006.01)

CPC (source: EP)

**G10K 11/002** (2013.01)

Citation (applicant)

DE 19548161 C1 19970213 - PETRY KLAUS DIPL ING [DE]

Citation (search report)

- [XYI] DE 102007027816 A1 20081218 - ENDRESS & HAUSER GMBH & CO KG [DE]
- [Y] US 2008224567 A1 20080918 - SUGIURA MAKIKO [JP], et al
- [Y] US 2003107302 A1 20030612 - BIRTH MICHAEL [DE], et al
- [XYI] US 2416337 A 19470225 - MASON WARREN P

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)

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