

Title (en)
Integrated magnetic device with piezoelectric control

Title (de)
Integrierte magnetische Vorrichtung mit integrierter piezoelektrischer Steuerung

Title (fr)
Dispositif magnétique intégré contrôlé piézoélectriquement

Publication
EP 1901317 B1 20121010 (FR)

Application
EP 07354048 A 20070906

Priority
FR 0607966 A 20060912

Abstract (en)
[origin: EP1901317A1] The device e.g. variable inductor (1) has a girder (7) made of piezoelectric material and encapsulated in soft isolating material. The girder has transversal parts (9) of preset width (W1), where each part has a mechanical anchorage area anchored on a substrate. The parts are connected by a central arm (10) of preset width (W2). An ellipsoid magnetic element (8) is disposed on the arm. The parts and the arm are made of piezoelectric material. The girder is liberated and fitted at ends of the area. The profile of the girder generates uniaxial and homogeneous constrains in the element.

IPC 8 full level
H01F 21/08 (2006.01); **H10N 30/00** (2023.01); **H01F 41/12** (2006.01); **H10N 30/20** (2023.01); **H10N 30/85** (2023.01)

CPC (source: EP US)
H01F 21/08 (2013.01 - EP US); **H01F 17/0006** (2013.01 - EP US); **H01F 27/022** (2013.01 - EP US)

Cited by
DE102016004816A1; US9773612B2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

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EP 1901317 A1 20080319; **EP 1901317 B1 20121010**; FR 2905793 A1 20080314; FR 2905793 B1 20081017; JP 2008072120 A 20080327;
JP 5058732 B2 20121024; US 2008068759 A1 20080320; US 7608975 B2 20091027

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EP 07354048 A 20070906; FR 0607966 A 20060912; JP 2007236824 A 20070912; US 89833107 A 20070911