

Title (en)

Generator for exciting a piezoelectric transducer

Title (de)

Generator zur Erregung eines piezoelektrischen Wandlers

Title (fr)

Générateur pour exciter un transducteur piézoélectrique

Publication

EP 1875969 B1 20100609 (FR)

Application

EP 07301207 A 20070705

Priority

FR 0652876 A 20060707

Abstract (en)

[origin: EP1875969A1] The generator has a digital processing unit e.g. microcontroller, comprising an oscillator to generate a clock frequency, where the generator is operated based on an iterative operation phase (200) comprising successive iterations. A transducer is excited by the generator, during each iteration, at a frequency variable in a frequency band around a set point frequency. Values of electrical quantities related to the excitation of the transducer are acquired for set of frequencies of the band. The values are analyzed to determine a resonance/anti-resonance frequency for following iteration.

IPC 8 full level

B05B 17/06 (2006.01); **H10N 30/20** (2023.01)

CPC (source: EP US)

B05B 17/0646 (2013.01 - EP US); **B06B 1/0261** (2013.01 - EP US); **B06B 2201/77** (2013.01 - EP US)

Cited by

FR2929861A1

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

DOCDB simple family (publication)

EP 1875969 A1 20080109; **EP 1875969 B1 20100609**; AT E470509 T1 20100615; DE 602007007015 D1 20100722; ES 2346581 T3 20101018; FR 2903331 A1 20080111; FR 2903331 B1 20081010; US 2008088202 A1 20080417; US 7960894 B2 20110614

DOCDB simple family (application)

EP 07301207 A 20070705; AT 07301207 T 20070705; DE 602007007015 T 20070705; ES 07301207 T 20070705; FR 0652876 A 20060707; US 82266207 A 20070709