

Title (en)
PIEZO MOTOR

Title (de)
PIEZOMOTOR

Title (fr)
PIEZOMOTEUR

Publication
EP 1500183 A2 20050126 (DE)

Application
EP 03727325 A 20030417

Priority
• DE 10217963 A 20020422
• DE 10227509 A 20020619
• EP 0304072 W 20030417

Abstract (en)
[origin: WO03090339A2] The invention relates to a piezo motor, comprising a piezoelectric component which is connected to a resonator and a two-dimensional resonator which interacts with a movable element and the main surfaces of which are placed parallel to each other and are identical in shape and size. The invention also relates to methods for producing such piezo motors, according to which the resonators are created by cutting a profiled bar into lengths or by cutting out, preferably punching out, from a sheet of metal having a constant thickness. Also disclosed is a method for exciting such a piezo motor, according to which the exciter frequency or frequencies is/are generated by the triggering electronic device according to the current overshoot and/or the respective phase minimum between the current and voltage and/or the phase modification as a function of time.

IPC 1-7
H02N 2/00; H01L 41/09

IPC 8 full level
H02N 2/00 (2006.01); **H02N 2/02** (2006.01); **H02N 2/10** (2006.01); **H10N 30/20** (2023.01)

CPC (source: EP)
H02N 2/002 (2013.01); **H02N 2/006** (2013.01); **H02N 2/103** (2013.01)

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

DOCDB simple family (publication)
WO 03090339 A2 20031030; **WO 03090339 A3 20040527**; AU 2003233991 A1 20031103; AU 2003239810 A1 20031103;
EP 1500183 A2 20050126; EP 1520338 A2 20050406; EP 1520338 B1 20120926; JP 2005532769 A 20051027; WO 03090338 A2 20031030;
WO 03090338 A3 20040408

DOCDB simple family (application)
EP 0304131 W 20030422; AU 2003233991 A 20030417; AU 2003239810 A 20030422; EP 0304072 W 20030417; EP 03727325 A 20030417;
EP 03732284 A 20030422; JP 2003586992 A 20030417