

Title (en)

Method of calculating a target voltage for a piezoelectric element

Title (de)

Verfahren zur Spannungssollwertberechnung eines piezoelektrischen Elementes

Title (fr)

Méthode de calcul de la tension prédéterminée d'un élément piézoélectrique

Publication

EP 1311004 A3 20051116 (DE)

Application

EP 02021151 A 20020924

Priority

DE 10155389 A 20011110

Abstract (en)

[origin: EP1311004A2] A multiplier (30) uses a temperature (16) for a piezoelectric element (10) to adjust a voltage set-point (14). An adjusted voltage set-point (28) to be calculated is formed from a voltage set-point (14) through multiplication with an adjustment value/multiplier (24) and/or through addition with an adjustment value/summand. The multiplier/summand are formed from specific data for the piezoelectric element and for tolerances in an injector.

IPC 1-7

H01L 41/04

IPC 8 full level

H10N 30/80 (2023.01); **F02D 41/20** (2006.01); **F02D 41/24** (2006.01); **H02N 2/06** (2006.01); **F02D 41/38** (2006.01)

CPC (source: EP US)

F02D 41/2096 (2013.01 - EP US); **F02D 41/2467** (2013.01 - EP US); **F02D 41/3809** (2013.01 - EP US); **F02D 2200/0602** (2013.01 - EP US)

Citation (search report)

- [X] DE 10016474 A1 20011004 - BOSCH GMBH ROBERT [DE]
- [X] EP 1139448 A1 20011004 - BOSCH GMBH ROBERT [DE]
- [A] DE 10108576 A1 20010927 - CATERPILLAR INC [US]

Cited by

GB2399656A; GB2399656B; DE102004028612B4; US6986339B2; WO2010133413A1; DE102009003176A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)

EP 1311004 A2 20030514; **EP 1311004 A3 20051116**; **EP 1311004 B1 20070912**; DE 10155389 A1 20030522; DE 50210881 D1 20071025; JP 2003148213 A 20030521; US 2003111934 A1 20030619; US 6867531 B2 20050315

DOCDB simple family (application)

EP 02021151 A 20020924; DE 10155389 A 20011110; DE 50210881 T 20020924; JP 2002324218 A 20021107; US 29211202 A 20021111