

Title (en)

DEVICE FOR CONTROLLING AN ULTRASOUND PIEZOELECTRIC INJECTOR

Title (de)

VORRICHTUNG ZUR STEUERUNG EINES PIEZOELEKTRISCHEN ULTRASCHALLINJEKTORS

Title (fr)

DISPOSITIF DE COMMANDE D'UN INJECTEUR PIEZO-ELECTRIQUE ULTRASONORE

Publication

EP 2024627 A1 20090218 (FR)

Application

EP 07766086 A 20070523

Priority

- FR 2007051313 W 20070523
- FR 0604727 A 20060524

Abstract (en)

[origin: WO2007135339A1] The invention relates to a device for the electronic control of at least one ultrasound piezoelectric injector driven by a control computer and powered with a DC voltage source, comprising: a first stage of amplifying said DC voltage delivering a high DC voltage signal; a second stage of generating an injector charge current, made up of an inductor connected to a chopping switch and forming an oscillating circuit with each driven injector; a third stage of selecting which injectors to drive, comprising a selection switch in series with each injector; characterized in that the selection third stage comprises, for each injector, a cell for damping the residual energy stored in each said injector at the end of injection command and causing alternating raised voltages at the terminals of said injector, the damping cell containing a resistor. Application to motor vehicles.

IPC 8 full level

F02D 41/20 (2006.01); **F02M 69/04** (2006.01); **H02H 9/00** (2006.01)

CPC (source: EP)

F02D 41/2096 (2013.01); **H02N 2/067** (2013.01); **F02M 69/041** (2013.01)

Citation (search report)

See references of WO 2007135339A1

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

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2007135339 A1 20071129; EP 2024627 A1 20090218; FR 2901575 A1 20071130; FR 2901575 B1 20120817

DOCDB simple family (application)

FR 2007051313 W 20070523; EP 07766086 A 20070523; FR 0604727 A 20060524