

Title (en)

HIGH PRESSURE FUEL INJECTOR WITH A HYDRAULICALLY CONTROLLED PLATE CAM

Title (de)

HOCHDRUCKKRAFTSTOFFINJEKTOR MIT HYDRAULISCH GESTEUERTEM STEUERSCHIEBER

Title (fr)

INJECTEUR DE CARBURANT HAUTE PRESSION DOTE D'UN TIROIR DE DISTRIBUTION A COMMANDE HYDRAULIQUE

Publication

**EP 1144862 A1 20011017 (DE)**

Application

**EP 00979437 A 20001020**

Priority

- DE 0003692 W 20001020
- DE 19950779 A 19991021

Abstract (en)

[origin: DE19950779A1] The injector has a high pressure reservoir connected via a 3/2-way valve to an injection nozzle. A control valve element connects a supply line to a high pressure line or a relief line opening into a reservoir tank. The control valve element has damping elements to damp the linear motion of the control valve element. The damping elements are in the form of offset diameters on the end regions of the control valve element. The injector has a high pressure reservoir (1) connected via a 3/2-way valve (3) to an injection nozzle (2). A control valve element (5) connects a supply line to a high pressure line or to a relief line opening into a reservoir tank. The control valve element has damping elements (7,22) on its ends opposite stops (8,18) to damp the linear motion of the control valve element. The damping elements are in the form of offset diameters on the end regions of the control valve element. Independent claims are also included for the following: an internal combustion engine with a fuel injection device.

IPC 1-7

**F02M 63/00**

IPC 8 full level

**F02M 47/00** (2006.01); **F02M 59/46** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP KR US)

**F02M 57/00** (2013.01 - KR); **F02M 63/0005** (2013.01 - EP US); **F02M 2200/304** (2013.01 - EP US)

Citation (search report)

See references of WO 0129410A1

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