

Title (en)

FUEL INJECTOR COMPRISING A PRESSURE-COMPENSATED CONTROL VALVE

Title (de)

KRAFTSTOFFINJEKTOR MIT DRUCKAUSGEGLICHENEM STEUERVERTIL

Title (fr)

INJECTEUR DE CARBURANT COMPORTANT UNE SOUPAPE DE COMMANDE À COMPENSATION DE PRESSION

Publication

**EP 2021618 A1 20090211 (DE)**

Application

**EP 07727029 A 20070319**

Priority

- EP 2007052551 W 20070319
- DE 102006021741 A 20060510

Abstract (en)

[origin: US2009308354A1] The invention relates to an injector for injecting fuel into a combustion chamber of an internal combustion engine. According to the invention, an injection valve member, which opens or closes at least one injection opening, is controlled by a control valve. The control valve opens or closes a connection from a control chamber into a fuel return line by the positioning of a closing element in a seat or by the opening of the seat. A bore is embodied in the closing element, and a pin is received in the bore. The diameter of the bore essentially corresponds to the diameter of the seat. The pin is supported on one side against a pressure rod, against a spring seat, or against the injector housing.

IPC 8 full level

**F02M 47/02** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)

**F02M 47/027** (2013.01 - EP US); **F02M 63/004** (2013.01 - EP US); **F02M 63/0043** (2013.01 - EP US); **F02M 63/0073** (2013.01 - EP US); **F02M 63/008** (2013.01 - EP US); **F02M 63/0015** (2013.01 - EP US); **F02M 63/0026** (2013.01 - EP US); **F02M 2200/304** (2013.01 - EP US); **F02M 2547/003** (2013.01 - EP US)

Citation (search report)

See references of WO 2007128613A1

Cited by

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**US 2009308354 A1 20091217**; **US 7870847 B2 20110118**; AT E479837 T1 20100915; CN 101490403 A 20090722; CN 101490403 B 20120613; DE 102006021741 A1 20071115; DE 502007004936 D1 20101014; EP 2021618 A1 20090211; EP 2021618 B1 20100901; RU 2008148285 A 20100620; RU 2441171 C2 20120127; WO 2007128613 A1 20071115

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