

Title (en)

FUEL OVERFLOW VALVE FOR A FUEL INJECTION SYSTEM, AND FUEL INJECTION SYSTEM HAVING A FUEL OVERFLOW VALVE

Title (de)

KRAFTSTOFFÜBERSTRÖMVENTIL FÜR EINE KRAFTSTOFFEINSPRITZEINRICHTUNG UND KRAFTSTOFFEINSPRITZEINRICHTUNG MIT KRAFTSTOFFÜBERSTRÖMVENTIL

Title (fr)

SOUPAPE DE DÉCHARGE DE CARBURANT POUR DISPOSITIF D'INJECTION DE CARBURANT, ET DISPOSITIF D'INJECTION DE CARBURANT PRÉSENTANT UNE SOUPAPE DE DÉCHARGE DE CARBURANT

Publication

**EP 2207955 A1 20100721 (DE)**

Application

**EP 08848181 A 20080918**

Priority

- EP 2008062443 W 20080918
- DE 102007052665 A 20071105

Abstract (en)

[origin: WO2009059833A1] The invention relates to a fuel overflow valve for a fuel injection system, particularly for limiting the pressure in a low-pressure region of the fuel injection system. The fuel overflow valve has a valve housing (38), in which a valve member (42) is disposed in a stroke-moving manner, the stroke movement of said valve member controlling a connection (43) of an inlet to the valve housing (38) to a release region. The valve member (42) is loaded by a valve spring (48) in the direction of a locking position in which the connection (43) of the inlet to the release region is interrupted, and is loaded by the pressure present in the inlet in the opening direction. The valve member (42) may carry out a further stroke in the locking direction beyond the locking position thereof, wherein the valve spring (48) does not act upon the valve member (42). Due to the increased stroke of the valve member (42), an improved balance of pressure and volume fluctuations is enabled in the low pressure region and the stroke of the valve spring (48), and thus the stress thereof, may be kept low.

IPC 8 full level

**F02M 37/00** (2006.01); **F16K 17/08** (2006.01)

CPC (source: EP US)

**F02M 37/0029** (2013.01 - EP US); **Y10T 137/7847** (2015.04 - EP US); **Y10T 137/785** (2015.04 - EP US)

Citation (search report)

See references of WO 2009059833A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

**DE 102007052665 A1 20090507**; CN 101849096 A 20100929; CN 101849096 B 20130619; EP 2207955 A1 20100721; EP 2207955 B1 20141112; JP 2011503413 A 20110127; JP 5222368 B2 20130626; KR 101481206 B1 20150109; KR 20100072338 A 20100630; US 2010258092 A1 20101014; US 8973557 B2 20150310; WO 2009059833 A1 20090514

DOCDB simple family (application)

**DE 102007052665 A 20071105**; CN 200880114809 A 20080918; EP 08848181 A 20080918; EP 2008062443 W 20080918; JP 2010532523 A 20080918; KR 20107009853 A 20080918; US 74149408 A 20080918