

Title (en)
FUEL INJECTOR WITH AN INTEGRATED PRESSURE BOOSTER

Title (de)
KRAFTSTOFFINJEKTOR MIT INTEGRIERTEM DRUCKVERSTÄRKER

Title (fr)
INJECTEUR DE CARBURANT AVEC SURPRESSEUR INTÉGRÉ

Publication
EP 2111505 B1 20120314 (DE)

Application
EP 08701208 A 20080103

Priority
• EP 2008050022 W 20080103
• DE 102007002760 A 20070118

Abstract (en)
[origin: US2010019068A1] Proposed is a fuel injector for injecting fuel into a combustion chamber of an internal combustion engine. The fuel injector has a housing in which are arranged an injection valve element with a nozzle needle, a pressure boosting device, and a first control valve, and a second control valve. The first control valve controls a control space of the nozzle needle and the second control valve controls a differential pressure space of the pressure boosting device. A first return flow connection is provided for discharging the control quantity of the control space of the nozzle needle, and a second return flow connection is provided for discharging the control quantity of the pressure boosting device. The two return flow connections are arranged on different housing parts of the housing.

IPC 8 full level
F02M 55/00 (2006.01); **F02M 47/02** (2006.01); **F02M 57/02** (2006.01); **F02M 61/14** (2006.01)

CPC (source: EP US)
F02M 47/027 (2013.01 - EP US); **F02M 55/002** (2013.01 - EP US); **F02M 57/025** (2013.01 - EP US); **F02M 61/14** (2013.01 - EP US)

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