

Title (en)
FUEL INJECTION VALVE

Title (de)
KRAFTSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 1766226 A1 20070328 (EN)

Application
EP 05763563 A 20050708

Priority
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• CA 2473639 A 20040709

Abstract (en)
[origin: CA2473639A1] A fuel injection valve is provided for introducing a fuel into an engine and controlling fuel flow to reduce variability between injection events. The fuel injection valve employs an arrangement for a valve nozzle that cooperates with a valve needle to provide a range of needle movement within which the fuel mass flow rate is substantially constant. This can be achieved by providing a restriction with a constant flow area for a predetermined range of needle movement. The method comprises commanding a valve needle to a position within the predetermined range of needle movement to reduce variability in the fuel mass flow rate, particularly when the engine is idling or operating under low load conditions.

IPC 8 full level
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