

Title (en)
ELECTRONICALLY CONTROLLED FUEL INJECTION VALVE

Title (de)
ELEKTRONISCH GESTEUERTES KRAFTSTOFFEINSPRITZVENTIL

Title (fr)
INJECTEUR DE CARBURANT À COMMANDE ÉLECTRONIQUE

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Application
EP 11852720 A 20111226

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Abstract (en)
An electronically controlled fuel injection valve can independently control the time to inject fuel and the amount of fuel to be injected in response to a control signal sent from the operating condition of an engine unlike a traditional mechanical fuel injection valve, and employs a control method for fuel injection that increases the force of lifting up a cutoff needle of an injection controller by delivering high-pressure fuel to a lower pressure chamber via a control needle, thereby rapidly controlling fuel injection. The electronically controlled fuel injection valve prevents a nozzle part from being constantly subjected to high pressure due to the nozzle part being not supplied with fuel when fuel is not injected, prevents a large amount of fuel from leaking into a combustion chamber when a part such as a needle is damaged, and simplifies the structure of a second flow path, thereby facilitating fabrication.

IPC 8 full level
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